CDX-5060

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model
UK Model

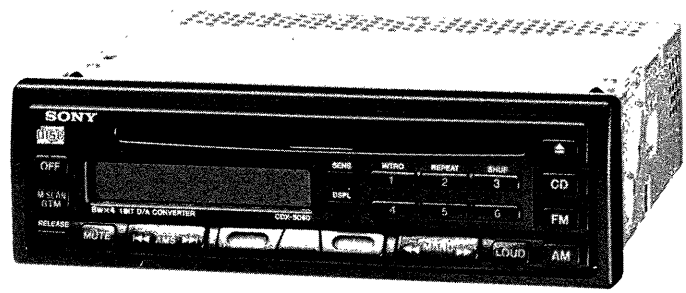

Photo: US model

COMPACT disc DIGITAL AUDIO

Model Name Using Similar Mechanism	CDX-5460
CD Drive Mechanism Type	MG-205Z-130

SPECIFICATIONS

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	CDX-5460/5260: 20 W × 4 (at 4 ohms)* CDX-5060: 8 W × 4 (at 4 ohms)* * Measured at 14.4 V

CD player section

System	Compact disc digital audio system
Frequency response	10 – 20,000 Hz ±3 dB
Wow and flutter	Below the measurable limit
Signal-to-noise ratio	90 dB
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission duration	Continuous
Laser out-put power	Less than 44.6 µW*

*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

Tuner section

FM

Tuning range	87.5 – 107.9 kHz (US, Canadian model) (at 200kHz step : E model) 87.5 – 108.0 MHz (AEP, UK model) (at 50 kHz step : E model)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Sensitivity	12 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB
Frequency response	30 – 15,000 Hz ±3 dB

MW/LW

Tuning range	MW: 530 – 1,710 kHz (US, Canadian model) (at 10 kHz step:E model)) 531 – 1,602 kHz(AEP, UK model) (at 9 kHz step:E model) LW : 153 – 281 kHz (AEP, UKmodel)
Antenna terminal	External antenna connector
Intermediate frequency	450kHz
Sensitivity	MW: 30 µV LW: 50 µV
Signal-to-noise ratio	55 dB
Harmonic distortion at 1 kHz	0.3%

General

Tone controls	Bass ±10 dB at 100 Hz Treble ±10 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Current drain	1 A (CD playback) 1.5 A (during disc loading or eject)
Operating temperature	–10°C to 50°C (15°F to 120°F)
Dimensions	Approx. 178 × 50 × 155 mm (w/h/d) ($7^1/_8$ × 2 × $6^1/_8$ in.) not incl. projecting parts and controls
Mass	Approx. 1.5 kg (3 lb 5 oz.)
Supplied accessories	Mounting hardware (1 set) Power input lead (1) Front panel case (1)
Optional accessories	Cleaning cloth XP-CD1 Compact disc single adaptor CSA-8 Wireless remote commander RM-X35 (for CDX-5460 only)

Design and specifications subject to change without notice.

FM/MW/LW COMPACT DISC PLAYER

SONY®

使用時は添付資料も参照のこと
Refer to the additional documents.

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SERVICING NOTES

Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 n m
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μW*

  * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

SAFETY - RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÉCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÉCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Features

General

- **Detachable-front panel** enables you to take the front panel away with you when you leave your car. (page 9)
- Switchable **two color illumination* (amber and green)**. (page 7)
- Provided with a **digital 12-hour clock**.(page 10)
- **Caution alarm*** will be activated if you turn off the ignition key without removing the front panel from the unit.
- **With the built-in high power amplifier (max. output: 4 ch × 20 W (CDX-5460 and CDX-5260) 4 ch × 8 W (CDX-5060))**, you can enjoy a 4-speaker system.
- Line outputs for connecting an optional power amplifier.
- **Telephone-mute function*** for decreasing the volume automatically with a telephone call.
- **Optional wireless remote commander*** can be used.

Tuner section

- **SSIR (Sony Super Interference Rejection) PLL (Phase-Locked Loop) synthesizer tuner.**
- Up to 24 stations can be preset: 18 stations on FM and 6 stations on AM.
- **BTM (Best Tuning Memory) function** automatically selects and stores the stations with strong signals on the preset number buttons in order of frequency. (page 14)

CD section

- **1 bit DAC (Digital-to-Analog Converter) for a clear sound reproduction.**
- **Quick recovery mechanism** for preventing sound skipping.
- **Shuffle play function** for playing tracks in random order. (page 12)
- **Intro scan function** for playing the first 10 seconds of each track. (page 12)
- **Repeat play function** for listening to a currently playing track repeatedly. (page 12)

*CDX-5460 only

Precautions

- Before operating the unit for the first time or after replacing the car battery, press the reset button with a ball-point pen etc., then start operating the unit.
- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers of a 2-speaker system, set the fader control to the center position.
- As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Note on moisture condensation

On a rainy day or in a very damp environment, moisture in the atmosphere may condense on the lenses inside the unit. Should this occur, the unit may not operate properly. In such a case, remove the disc inside and wait for about an hour or so until the moisture has evaporated.

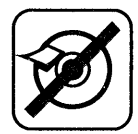
If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

Notes on Discs

Handle the disc by its edge, and to keep the disc clean, do not touch the surface.

This way

Do not attach any paper or tape.



Not this way

Do not expose the disc to direct sunlight or heat sources such as hot air-ducts, or leave it in a car parked in direct sunlight where there can be a considerable rise in temperature.

Cleaning Discs

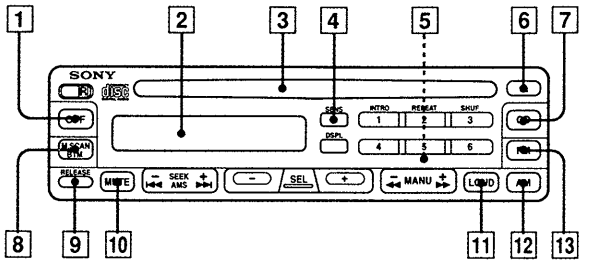
Before playing, clean the disc with an optional cleaning cloth.
Wipe the disc in the direction of the arrows.

Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray intended for analog discs.

This section is extracted from instruction manual.

Location and Function of Controls

Main Unit



Refer to the pages in ● for details.

1 **OFF button**
Press to turn off the unit.

2 **Display window**

3 **Disc insertion slot**

4 **SENS (sensitivity) button ⓭**

5 **Reset button (located on the front side of the unit hidden by the front panel)**
Press this button when you use this unit for the first time, when you have changed the car battery, or when the buttons of this unit do not function. Note that when the button is pressed, the memories on the preset number buttons will be erased.

6 **⏏ (eject) button ⓫**

7 **CD (disc play) button ⓫**

8 **M.SCAN/BTM (memory scan/best tuning memory) button ⓮⓰**

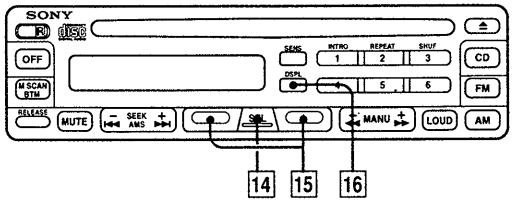
9 **RELEASE (front panel release) button ❾**

10 **MUTE button**
Press to mute the sound momentarily. Press again to restore the previous volume level. This button will also be canceled in the following cases:
— when the ⊕ or OFF button is pressed
— when the ignition key of your car has been turned to the OFF position for more than ten seconds.

11 **LOUD (loudness) button**
Press to reinforce the bass and treble especially when listening at a low volume level. To cancel the mode, press it again.

12 **AM (radio on) button ⓬**

13 **FM (radio on/band select) button ⓬**
At each pressing, the button changes the band cyclically as follows:
FMI → FMII → FMIII → FMI



14 **SEL (control mode select) button**
Press to select the desired control mode: BAS (bass), TRE (treble), BAL (balance), FAD (fader) or VOL (volume).

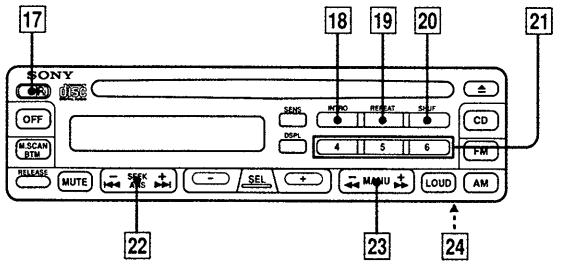
15 **⊖⊕ (volume/bass/treble/balance/fader control) buttons**
Press to adjust each mode.

16 **DSPL (display change/time set) button ⓾**
At each pressing, the button changes the display modes as follows:

During CD play	During radio reception
Elapsed playing time/track number ↔ Clock	Frequency ↔ Clock

Display window	Control mode	⊖ / ⊕	
		Press ⊖	Press ⊕
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speakers' volume	To decrease the left-speakers' volume
FAD	Fader control	To decrease the rear-speakers' volume	To decrease the front-speakers' volume
VOL	Volume control	For less volume	For more volume

These ⊖⊕ buttons normally function as the volume control. Adjust the level within three seconds after selecting the desired control mode with the SEL button. Otherwise, the mode will go back to the volume control mode.



17 **Receptor for the optional wireless remote commander (CDX-5460 only)**

		During CD play	During radio reception
18	**INTRO button** [INTRO 1]	**Intro scan** ⑫	**Preset number buttons** ⑮⑯
19	**REPEAT button** [REPEAT 2]	**Repeat play** ⑫	
20	**SHUF button** [SHUF 3]	**Shuffle play** ⑫	
21	[4] [5] [6]	–	
22	**SEEK/AMS button** [− SEEK AMS +]	**AMS (Automatic Music Sensor) function** I◀◀: Press once to locate the beginning of the track being played. ▶▶I: Press once to locate the beginning of the next track. Press repeatedly to locate previous or succeeding tracks.	**Automatic tuning** ⑬
23	**MANU button** [− MANU +]	**Manual search** ◀◀: Keep pressed to go back at high speed. ▶▶: Keep pressed to go ahead at high speed.	**Manual tuning** ⑬

24 **POWER SELECT switch (located on the bottom of the unit)**
See "POWER SELECT Switch" in the installation/connections manual.

Changing the illumination color (CDX-5460 only)

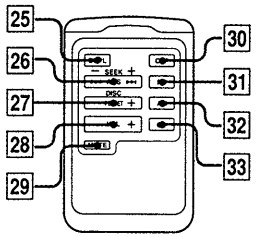
Press the [INTRO 1] button while pressing the SEL button.

Muting the beep tone (CDX-5460 only)

Press the [6] button while pressing the SEL button. To obtain the beep tone again, press these buttons once more.

Location and Function of Controls

Optional Wireless Remote Commander (CDX-5460 only)



Buttons of the same function as those on the main unit

25 **DSPL (display change) button**

	During CD play	During radio reception
26	**AMS (Automatic Music Sensor) button**	**SEEK (automatic tuning) button** ⑬

29 **MUTE button**
30 **OFF button**
31 **FM (radio on/band select) button** ⑬
32 **AM (radio on) button** ⑬
33 **CD (disc play) button** ⑪

Different function buttons

27 **PRESET (preset search) button**
Press lightly to receive in order the stations memorized on the preset number buttons. At each pressing, the number changes as follows:
+ : 1 → 2 → 3 → 4 → 5 → 6 → 1...
− : 1 → 6 → 5 → 4 → 3 → 2 → 1...

28 **VOL (volume) button**
This button adjusts only the volume level.

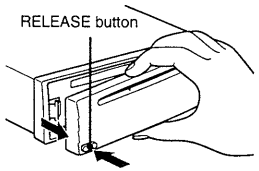
When the POWER SELECT switch is set to the OFF position, the unit cannot be operated with the wireless remote commander unless one of the CD, FM and AM buttons of the unit is pressed or a disc is inserted to activate the unit first.

Detaching and Attaching the Front Panel

The front panel of this unit can be detached in order to prevent the unit from being stolen.

Detaching the Front Panel

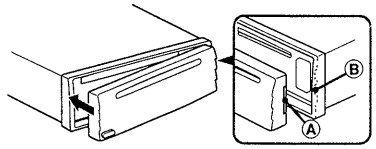
Before detaching the front panel, be sure to press the OFF button first. Then press the RELEASE button to open up the front panel and detach the panel by pulling it towards you as illustrated.



Be sure not to drop the panel when detaching it from the unit.

Attaching the Front Panel

Apply the right hand side of the front panel to the unit by attaching the part Ⓐ of the front panel to the part Ⓑ of the unit as illustrated and push until it clicks.



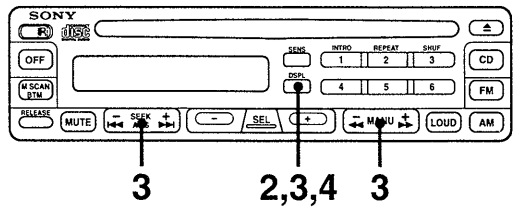
Caution alarm (CDX-5460 only)

If you turn your ignition key to the OFF position without removing the front panel, the caution alarm will be activated and a beep tone will be heard for a few seconds (only when the POWER SELECT switch is set to the ON position).

Notes

- Make sure that the front panel is the right way up when attaching it to the unit as it cannot be attached upside down.
- Do not press the front panel hard against the unit when attaching it to the unit. It can be easily attached by pressing it lightly against the unit.
- When you carry the front panel with you, put it in the supplied front panel case.
- Do not press hard or give excessive pressure to the display window of the front panel.
- Before removing the front panel, be sure to turn the power off. However, if you press the RELEASE button to detach the panel while the unit is turned on, the power will be automatically turned off in order to protect the speakers from being damaged.
- Do not expose the front panel to direct sunlight, heat sources such as hot air ducts or leave it in a humid place. Never leave it on the dashboard etc. of a car parked in direct sunlight where there may be a considerable rise in temperature inside the car.

Setting the Clock



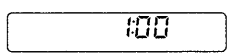
The clock has a 12-hour digital indication.

For example, set it to 10:08.

1 **Turn the ignition key to the ON position.**

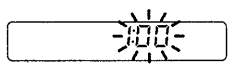
2 **Press the DSPL button if the clock indication does not appear.**

DSPL



3 **Press the DSPL button for more than two seconds.**

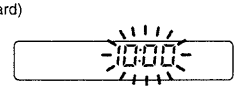
DSPL



While holding down the DSPL button

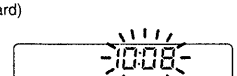
Press the SEEK AMS button to set the hour digits.

(to go back) (to go forward)

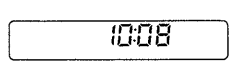


Press the MANU button to set the minute digits.

(to go back) (to go forward)



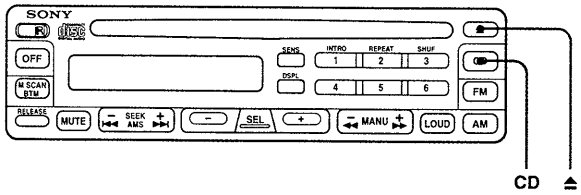
4 **The clock starts activating when you take your finger off the DSPL button.**



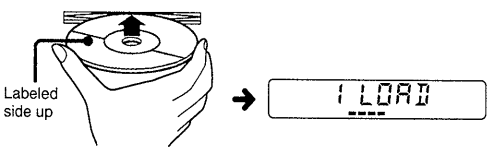
Notes

- You cannot set the clock with the optional wireless remote commander (CDX-5460 only).
- If the POWER SELECT switch of the unit is set to the OFF position, the clock cannot be set unless the power is turned on. Set the clock after you have turned on the radio or start CD play.

Playing a CD

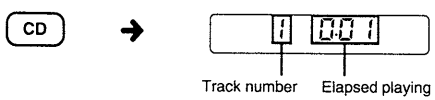


Insert a disc into the slot.



When a disc is inserted, CD play will automatically start.

If a disc is already inserted, press the CD button.



Ejecting the Disc

Press the ⏏ button.

If you press the FM or AM button during CD play

The CD play will stop automatically and the tuner will be activated.

Important

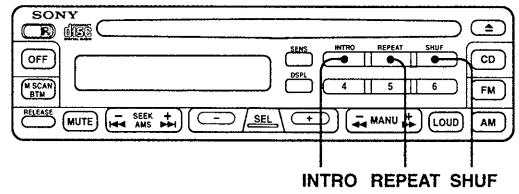
Since the CD system offers a wide dynamic range, the peaks of the high level inputs are recorded with high fidelity and the noise level is very low. Do not turn up the volume while listening to a section with no audio signals or very low level inputs. If you do so, the speakers may be damaged when a section with a peak signal is played.

Notes

- If a disc is already loaded in the unit, never try to insert another disc.
- If you leave the ejected disc in the disc insertion slot after you have pressed the ⏏ button, the disc will be automatically retracted into the unit after approximately 15 seconds in order to protect it.
- To play a 3-inch (8 cm) CD, use the Sony CSA-8 adaptor (not supplied).
- If the MANU button is kept pressed and the end of the disc has been reached, "7777" will appear on the display window. Likewise if the beginning of the disc has been reached, "LLLL" will appear on the display window.

At the end of the disc
The track number returns to "1" and CD play is repeated from the beginning of the disc.

Playing in Other Modes



Playing the Beginning of Tracks
— Intro Scan Function

Press the INTRO 1 button to play the first 10 seconds of each track in order.
To cancel the function, press it again.

Playing Repeatedly
— Repeat Play Function

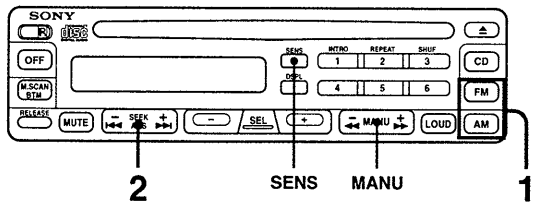
Press the REPEAT 2 button to repeat the same track.
To cancel the function, press it again.

Playing in Random Order
— Shuffle Play Function

Press the SHUF 3 button to play the tracks in random order.
To cancel the function, press it again.

Note
If the INTRO button is pressed during shuffle play, the first 10 seconds of every track will be played randomly.

Tuning in a Station



Searching for the Stations Automatically
— Automatic Tuning

1 **Select the desired band.**

FM AM

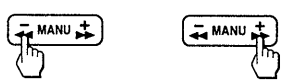
2 **Press the SEEK button.**

For lower frequencies For higher frequencies

The scanning stops when a station is received. Press the button repeatedly until the desired station is received.

Tuning in by Adjusting the Frequency
— Manual Tuning

Select the desired band, then press the MANU button.

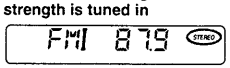


For lower frequencies For higher frequencies

PREVENTING ACCIDENTS!

While you are driving, the use of the Automatic Tuning and the Memory Preset Tuning is recommended in favor of the Manual Tuning.

When an FM stereo program with a sufficient signal strength is tuned in



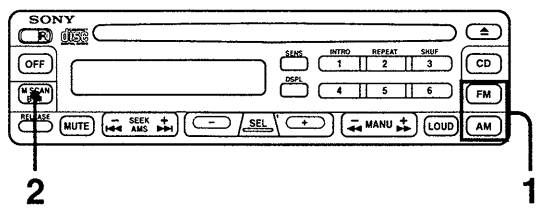
The "STEREO" indication will appear.

Avoiding the automatic tuning from stopping on stations too frequently (Local Seek Mode)
Press the SENS button lightly to get the "LOCAL" indication. Only the stations with relatively strong signals can be tuned in. The local seek mode functions only when the Automatic Tuning is in operation.

If FM stereo broadcasting is difficult to receive (Monaural Mode)
Press the SENS button lightly to get the "MONO" indication. The sound will improve, but it will become monaural.

Note
You cannot use the manual tuning with the optional wireless remote commander (CDX-5460 only).

Using the Memory Preset Function



Best receiving stations are automatically searched and memorized on each band (FMI, FMII, FMIII and AM). Up to 6 stations on each band can be stored on the preset number buttons 1 to 6 in order of frequency.

Memorizing the Stations Automatically
— BTM (Best Tuning Memory) Function

1 **Select the desired band.**

FM AM

2 **Keep the BTM button pressed for more than two seconds.**

M.SCAN BTM

The BTM function

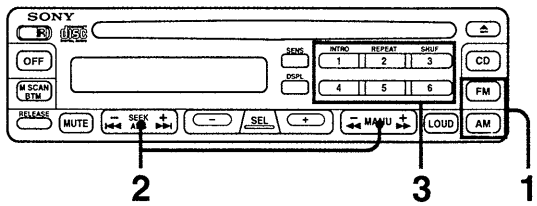
The BTM function searches all the receivable stations within the currently selected band and memorizes the ones in good receiving conditions in sequence from the lowest frequency.

How to memorize the stations on the preset number buttons

— When there is no preset number indicated on the display window: all the preset number buttons set in the currently selected band will be filled with the memories.
— When there is a preset number indicated on the display window: the unit will memorize the stations on the preset number buttons from the one currently being displayed. For example, when you choose FMII and preset number 3 is being displayed, the operation will start from preset number 3 on FMII, and stops at preset number 6 on FMIII.

The receivable frequency ranges of the FM bands (FMI, FMII, FMIII) are the same
Therefore, 18 stations can be memorized on FM.

Note
There may be cases where there are not enough receivable stations due to the lack of stations in the vicinity or weak broadcasting signals. In such cases, the BTM operation may stop without all the buttons being occupied with memories.



Up to 6 stations on each band (FMI, FMII, FMIII and AM) can be stored on the preset number buttons in order of your choice.

Memorizing Only the Desired Stations

For example, store a station on the preset number button 1.

1 **Select the desired band.**

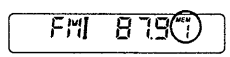
FM AM

2 **Tune in the station which you wish to store on the preset number button.**

SEEK AMS or MANU

3 **Keep the preset number button pressed for about two seconds until the "MEM" indication appears on the display window.**

1

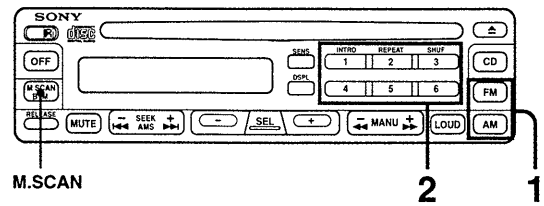


The number of the pressed preset number button now appears on the display window. When the "MEM" indication appears, the station is stored in the memory and the operation is now completed. The "MEM" indication goes off after a while.

Repeat the same procedure to store other stations.

Each preset number button has only one memory location per band

If you try to store another station on the same preset number button, the previously stored station will be erased.



Receiving the Memorized Stations

1 **Select the desired band.**

FM AM

2 **Press the desired preset number button lightly.**

1 — 6

Note

If you keep pressing the preset number button for more than two seconds, the currently received station will be memorized again. To receive the previously memorized station, make sure that the preset number button is pressed only lightly.

Checking in Order, All the Stations Stored in the Memory — Memory Scan Function

Press the M.SCAN button lightly.

The tuner will receive in order, all the stations stored in the memory for five seconds each. To cancel the function, press the button lightly once more.

Note

There may be cases where even the stations which are stored in the memory cannot be received due to weak signals in the vicinity of your car.

Installation

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration
- Use only the supplied mounting hardware for a safe and secure installation.
- Be sure to detach the front panel before you start installing the unit.
- **Press the reset button after completing the connections.**

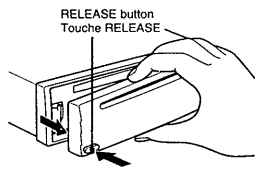
Mounting angle adjustment
Adjust the mounting angle to less than 20°.

How to Detach and Attach the Front Panel

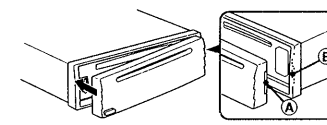
To detach
Press the RELEASE button to open up the front panel, then pull it out.

To attach
Align the parts Ⓐ and Ⓑ, and push the front panel until it clicks.

To detach
Retrait



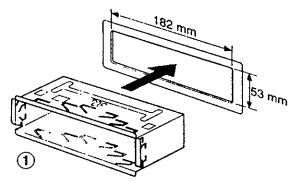
To attach
Pose



Mounting Example

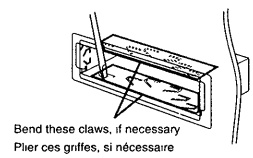
Installation in the dashboard

1



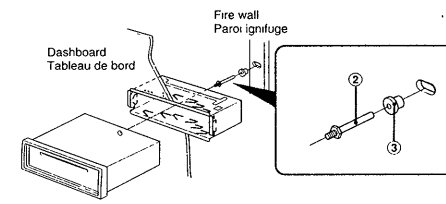
with the TOP marking up
avec l'inscription TOP vers le haut

2



Bend these claws, if necessary
Plier ces griffes, si nécessaire

3

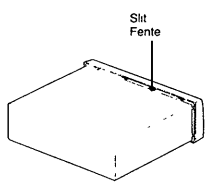


Mounting the Unit in a Japanese Car

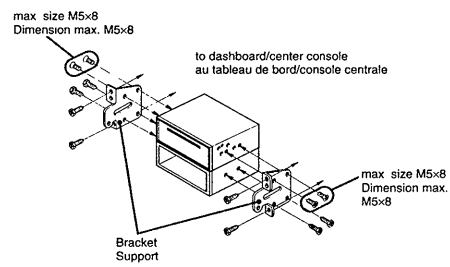
You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your nearest Sony dealer.

1 **Run a blade along the slits on the back of the front trim and cut it off the unit.**

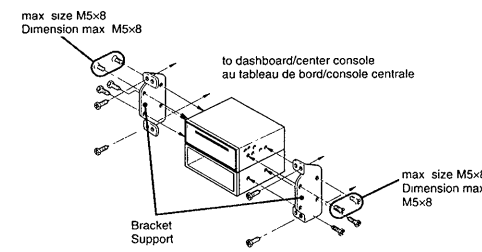
Passer une lame le long des fentes à l'arrière de la bordure et la couper.



2 **TOYOTA**



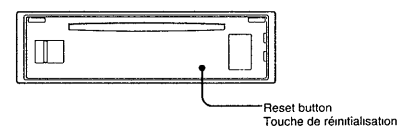
NISSAN



Note
Use the existing parts supplied to your car

Reset Button

When the installation and connections are over, be sure to press the reset button with a ball-point pen etc. The reset button is located on the left of the connector on the unit side when the front panel is detached.



Installation

Précautions

- Choisir l'emplacement de montage avec soin de manière que l'appareil ne gêne pas les mouvements du conducteur.
- Eviter d'installer l'appareil en plein soleil, près d'une source de chaleur comme un chauffage ou dans un endroit exposé à la poussière, la saleté ou des vibrations excessives.
- Afin de garantir un montage sûr, utiliser uniquement le matériel de montage fourni.
- Veiller à détacher le panneau avant d'installer l'appareil.
- **Les connexions achevées, appuyer sur la touche de réinitialisation.**

Réglage de l'angle de montage
Ajuster l'inclinaison à un angle inférieur à 20°

Retrait et pose du panneau avant

Retrait
Appuyer sur la touche RELEASE pour ouvrir le panneau avant, puis l'enlever.

Pose
Aligner les points Ⓐ et Ⓑ, puis pousser l'appareil jusqu'au déclic.

Exemple de montage

Installation dans le tableau de bord.

Installation de l'appareil dans une voiture japonaise

Si l'appareil ne peut pas être installé dans une voiture japonaise, consulter le revendeur Sony le plus proche.

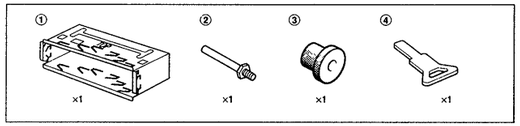
Remarque
Utiliser les pièces fournies avec la voiture

Touche de réinitialisation

Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo bille ou autre objet pointu. La touche de réinitialisation est située à gauche du connecteur sur la partie de l'appareil qui se trouve derrière le panneau avant.

Supplied Mounting Hardware
Matériel de montage fourni

The numbers in the list are keyed to those in the instructions.
Les numéros de la liste correspondent à ceux des instructions.



The release key ④ is necessary when you wish to dismount the unit from where it has been installed. Keep it in a safe place just in case you need it in future. See the operating instructions manual for details.

La clé de libération ④ est nécessaire pour démonter l'appareil. La ranger dans un endroit sûr car elle pourrait être utile par la suite. Consulter le mode d'emploi pour plus de détails.

Connection — Connexions

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal which is energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Précautions

- Cet appareil est conçu pour fonctionner sur courant continu de 12 V avec masse négative.
- Avant d'effectuer les connexions, débrancher la borne de terre de la batterie du véhicule pour éviter tout court-circuit.
- Brancher le fil d'entrée d'alimentation **rouge** en dernier. En outre, veiller à le raccorder à la borne d'alimentation de 12 V positive qui est énergétisée quand la clé de contact est sur la position accessoire.
- **Rassembler tous les fils de terre en un point de masse commun.**

When the Unit is Used in a Car with No Accessory Position on the Ignition Key

— POWER SELECT Switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear **if the unit is used in a car with no accessory position on the ignition key.**
To avoid this battery wear when using the unit in such a car, **set the POWER SELECT switch located on the bottom of the unit to the OFF position, then press the reset button**. The illumination is reset to stay off while the unit is not being played.

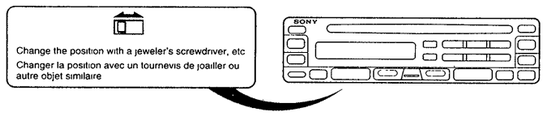
Note
The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the OFF position

Si l'appareil est utilisé dans une voiture dont la clé de contact n'a pas de position accessoire

— Interrupteur POWER SELECT

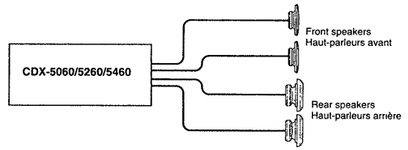
L'éclairage du panneau avant est réglé en usine de manière à s'allumer même quand l'appareil ne fonctionne pas. Cependant, ce réglage risque d'épuiser la batterie **si l'appareil est utilisé dans une voiture dont la clé de contact ne possède pas de position accessoire**. Pour éviter d'épuiser la batterie, **régler l'interrupteur POWER SELECT sur le fond de l'appareil sur OFF, puis appuyer sur la touche de réinitialisation**. L'éclairage est réinitialisé pour rester éteint quand l'appareil n'est pas utilisé.

Remarque
Quand l'interrupteur POWER SELECT est réglé sur OFF, l'avertisseur du panneau avant ne fonctionne pas

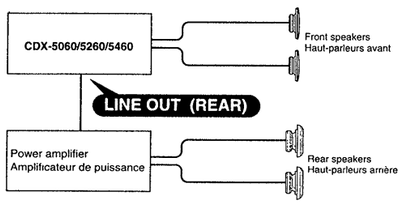

Change the position with a jeweler's screwdriver, etc
Changer la position avec un tournevis de joaillier ou autre objet similaire
SONY

Connection Diagram — Schémas de connexion

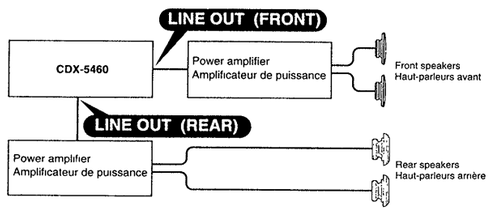
Example 1
Exemple 1



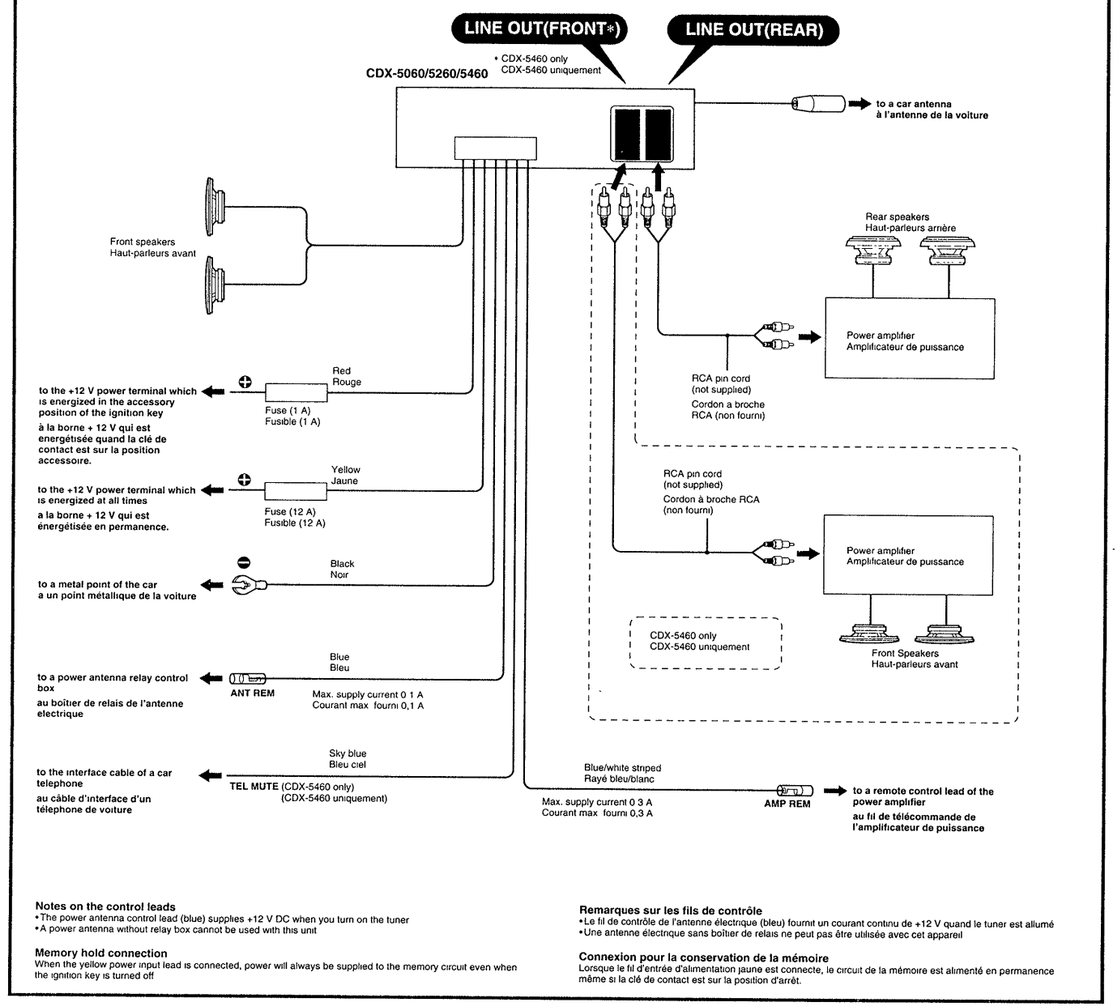
Example 2
Exemple 2



Example 3 (CDX-5460 only)
Exemple 3 (CDX-5460 uniquement)



Connection Example — Exemple de connexion



Notes on the control leads
- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner
- A power antenna without relay box cannot be used with this unit

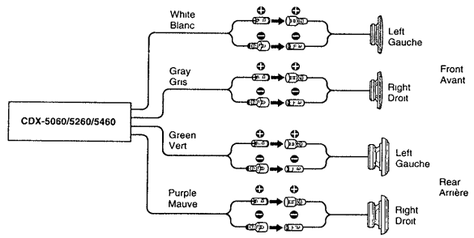
Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off

Remarques sur les fils de contrôle
- Le fil de contrôle de l'antenne électrique (bleu) fournit un courant continu de +12 V quand le tuner est allumé
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil

Connexion pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Speaker Connection — Connexion des haut-parleurs

4-speaker connection
Connexion de 4 haut-parleurs

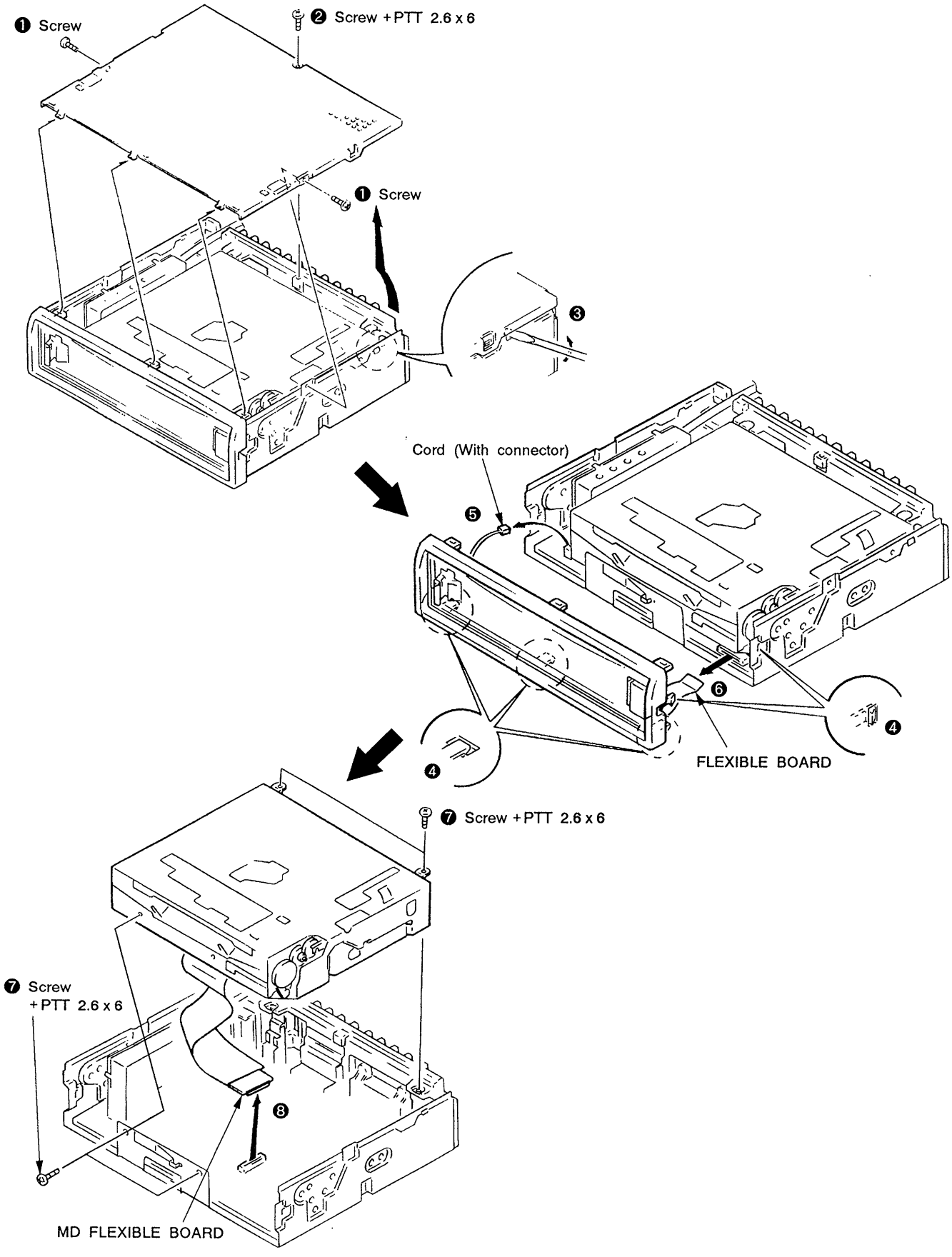


Notes on speaker connection
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.

Remarques sur la connexion des haut-parleurs
- Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adequate sous peine de les endommager.
- Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne pas tenter de raccorder les haut-parleurs en parallèle.
- Ne pas raccorder des haut-parleurs actifs (avec amplificateurs intégrés) aux bornes de haut-parleur de l'appareil sous peine de les endommager. Veiller à raccorder des haut-parleurs passifs à ces bornes.

SECTION 2
DISASSEMBLY

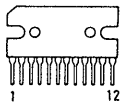
Note: Follow the disassembly procedure in the numerical order given.



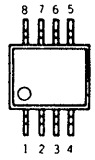
SECTION 3
DIAGRAMS

3-1. SEMICONDUCTOR LEAD LAYOUTS

BA3910

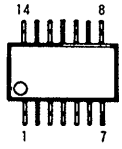


BA4560F
NJM4558M



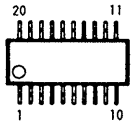
(TOP VIEW)

BU4081BF
SN74HC02ANS



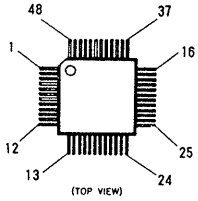
(TOP VIEW)

CXA1610M
LC7216M
MPC1730MR2

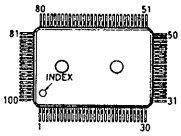


(TOP VIEW)

CXA1646Q

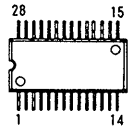


CXD2515Q



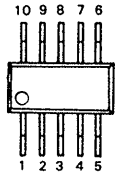
(TOP VIEW)

CXD8451M

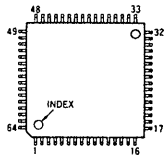


(TOP VIEW)

LB1638M

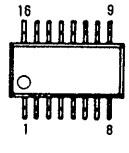


LC7582



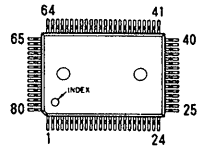
(TOP VIEW)

MPC1732MR2



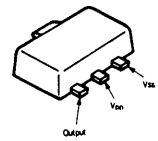
(TOP VIEW)

μPD75518GF-089-3B9

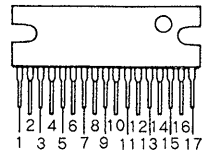


(TOP VIEW)

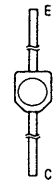
S-8054HN-CB



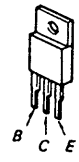
TDA1554Q



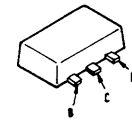
ST-308



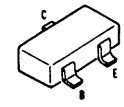
2SD2012
2SD2394-G



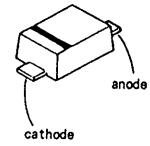
2SB1073-R



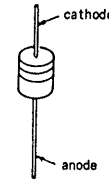
2SD601A-Q



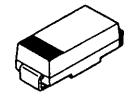
MA8051-H



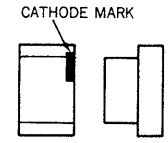
MTZJ-3.9B
MTZJ-5.1B
MYZJ-5.6B
MYZJ-6.2B
MTZJ-6.8B
MTZJ-6.8C
MTZJ-12
MTZJ-16B



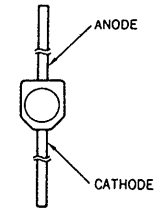
SFPB-74V



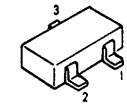
CL-107Y-CD



EL-308



1SS226



3-2. PRINTED WIRING BOARDS – MD Section –

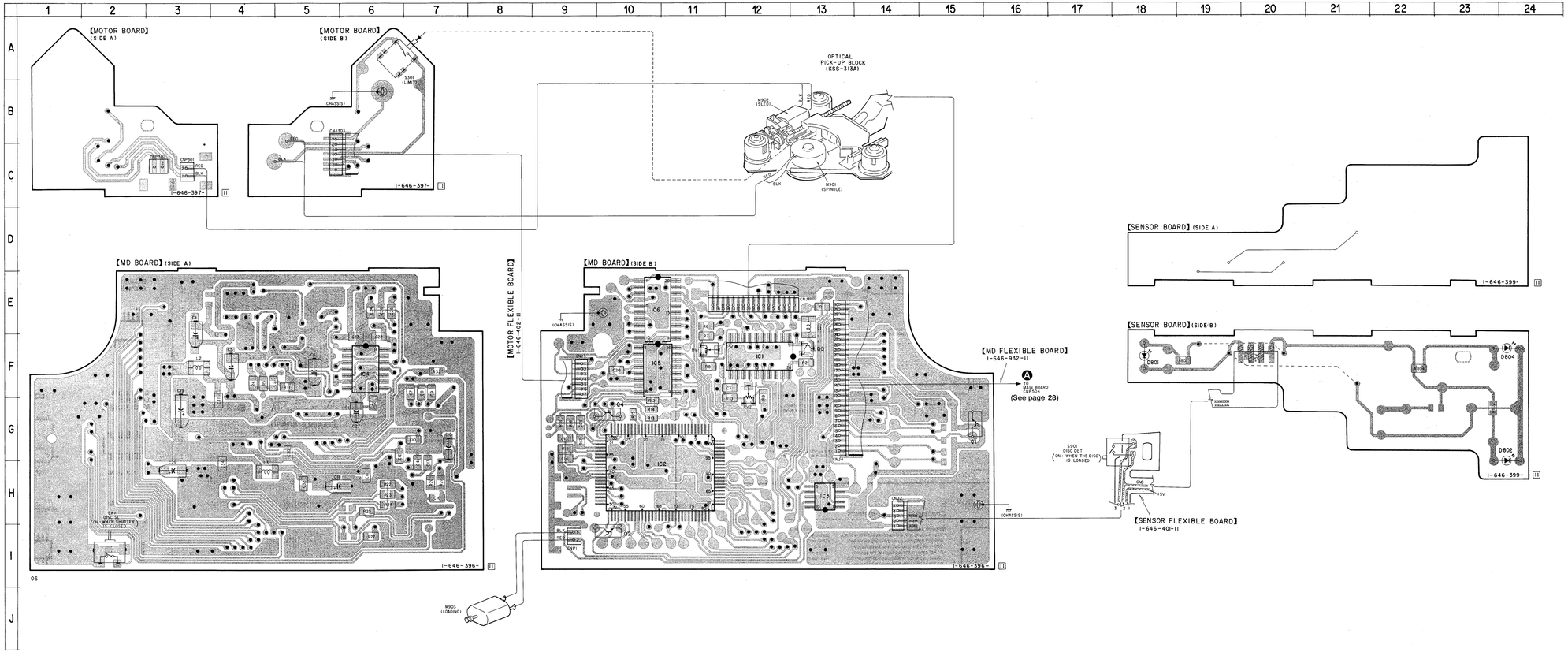
• See page 14 for Semiconductor Lead Layouts.

• **Semiconductor Location**

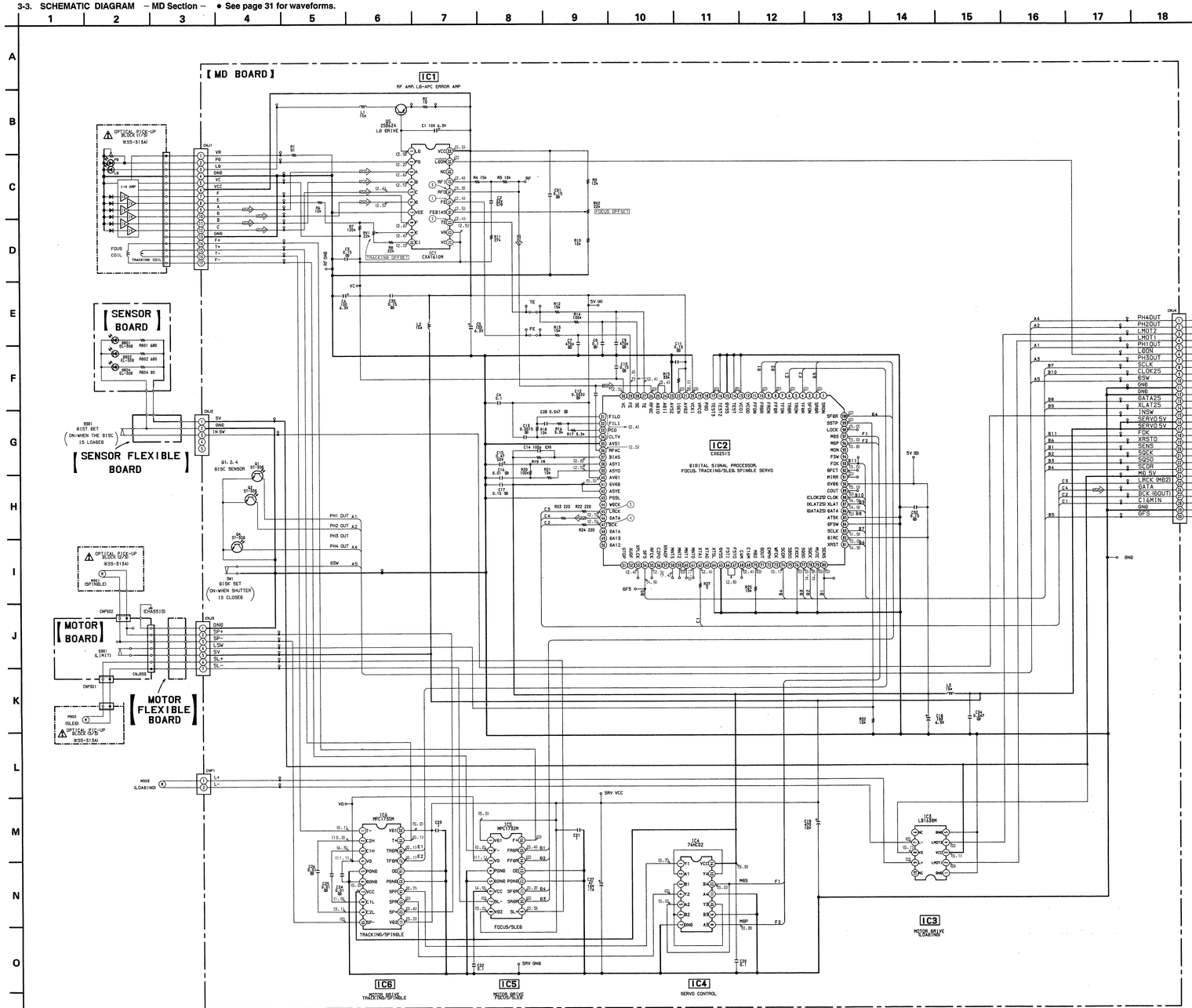
Ref. No.	Location
D801	F-18
D802	H-24
D804	F-24
IC1	F-12
IC2	H-10
IC3	H-13
IC4	F-6
IC5	F-10
IC6	E-10
Q1	G-15
Q2	I-10
Q4	G-10
Q5	F-13

Note:
- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

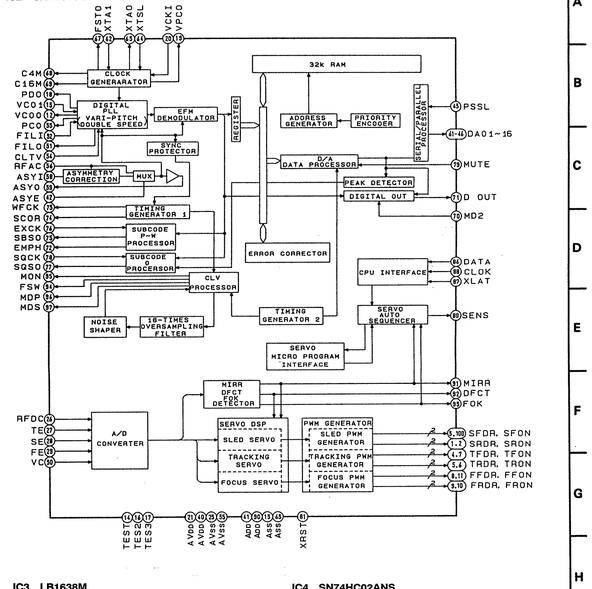


3-3. SCHEMATIC DIAGRAM – MD Section – • See page 31 for waveforms.

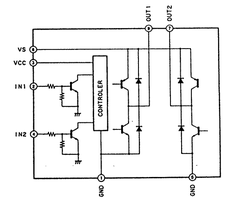


• IC Block Diagrams

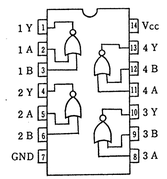
IC2 CXD2515Q



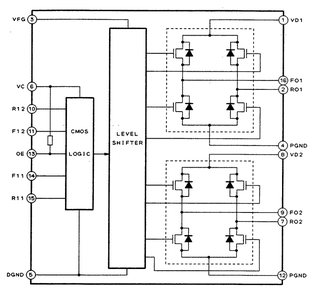
IC3 LB1638M



IC4 SN74HC02ANS



IC5, 6 MPC1732MR2



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and¼ W or less unless otherwise specified.
- ▬▬ : B+ Line.
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- ( ): CD
- Voltages are taken with a VOM (Input impedance 10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

3-4. SCHEMATIC DIAGRAM – MAIN Section – • See page 31 for waveforms.

【MAIN BOARD】

TO MB FLEXIBLE BOARD CN1A (See page 21)

IC301 CXD8451M A/D & D/A CONVERTER

IC304 IC305 FILTER

IC306 TUNER AMP

IC302 ELECTRIC VOLUME

IC304 BUFFER

IC307 VCT AMP

IC701 POWER AMP

IC305 BUFFER

IC501 SYSTEM CONTROL

IC603 FM AM PLL

IC502 RESET

IC503 REG

IC552 DATA SELECTER

【FLEXIBLE BOARD】

(See page 35)

LINE OUT

TUNER BLOCK

Q501, 524 ACC, BACK-UP CHECK

• IC Block Diagrams

IC301 CXD8451M

IC302 CXA16146Q

IC603 LC7216M

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ▭▭ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD
  < > : AM
- Voltages are taken with a VOM (Input impedance 10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ⇨ : CD

3-5. PRINTED WIRING BOARDS – MAIN Section –

• See page 14 for Semiconductor Lead Layouts.

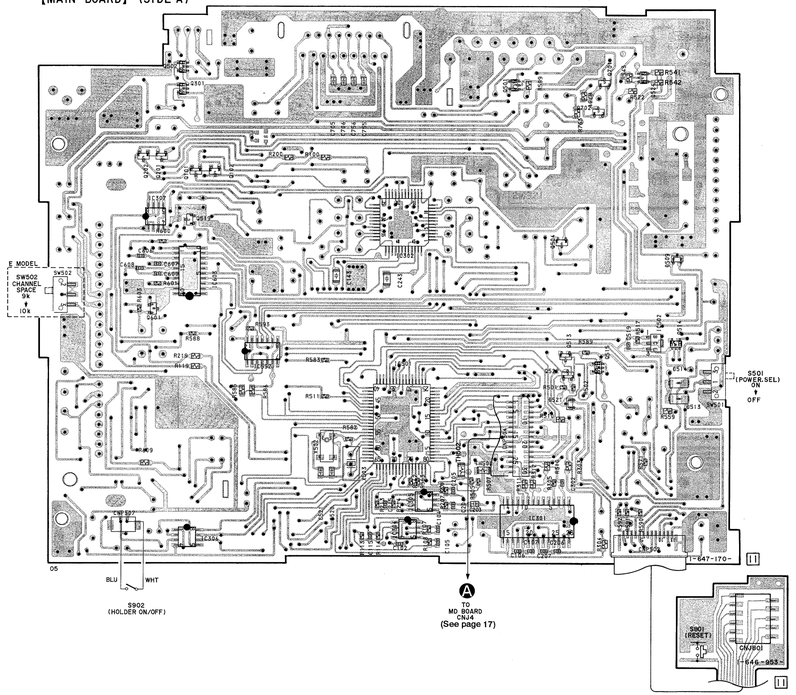
• Semiconductor Location

Ref. No.	Location
D101	C-14
D201	C-14
D500	G-15
D501	E-9
D505	C-11
D506	C-11
D507	F-10
D508	F-10
D509	D-7
D512	D-10
D513	F-7
D514	E-7
D518	C-10
D521	F-6
D523	B-14
D526	G-9
D529	G-9
D531	F-10
D532	F-10
D533	F-10
D550	E-13
D601	C-11
D602	C-11
D731	C-11
IC301	G-6
IC302	D-5
IC304	G-5
IC305	G-5
IC306	D-2
IC307	D-2
IC501	F-5
IC502	E-7
IC503	C-9
IC552	E-3
IC603	D-2
IC701	B-13
Q100	C-14
Q101	C-3
Q102	C-3
Q200	C-14
Q201	C-2
Q202	C-2
Q301	B-2
Q501	B-6
Q502	B-2
Q504	D-6
Q508	E-9
Q511	F-9
Q513	E-6
Q514	E-7
Q515	E-7
Q517	E-9
Q519	D-2
Q520	B-14
Q521	D-14
Q522	E-6
Q523	F-11
Q524	B-7
Q550	E-14
Q601	E-2
Q605	F-15
Q701	B-7
Q702	C-7

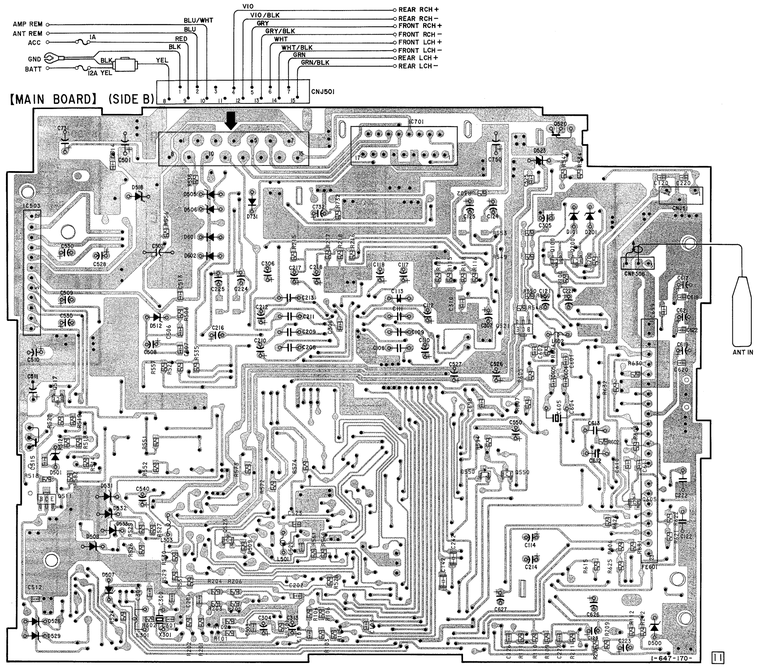
Note:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enables seeing. (The other layers patterns are not indicated.)

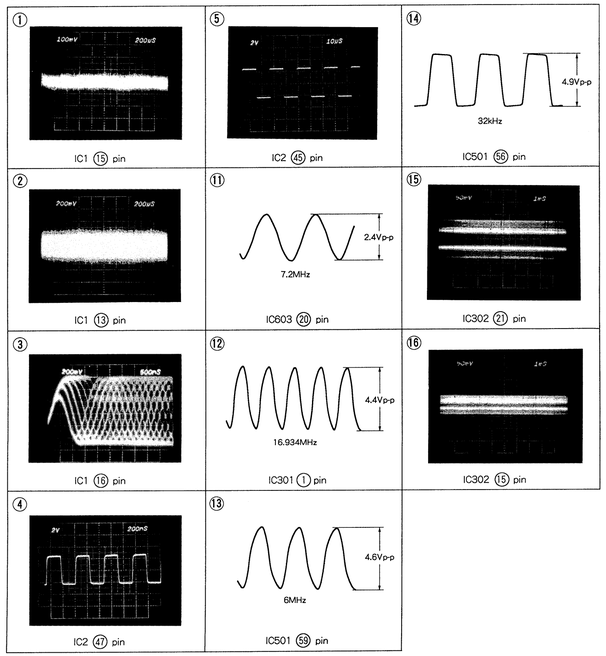
【MAIN BOARD】 (SIDE A)



【MAIN BOARD】 (SIDE B)



• Waveforms



3-6. PRINTED WIRING BOARD – DISPLAY Section –

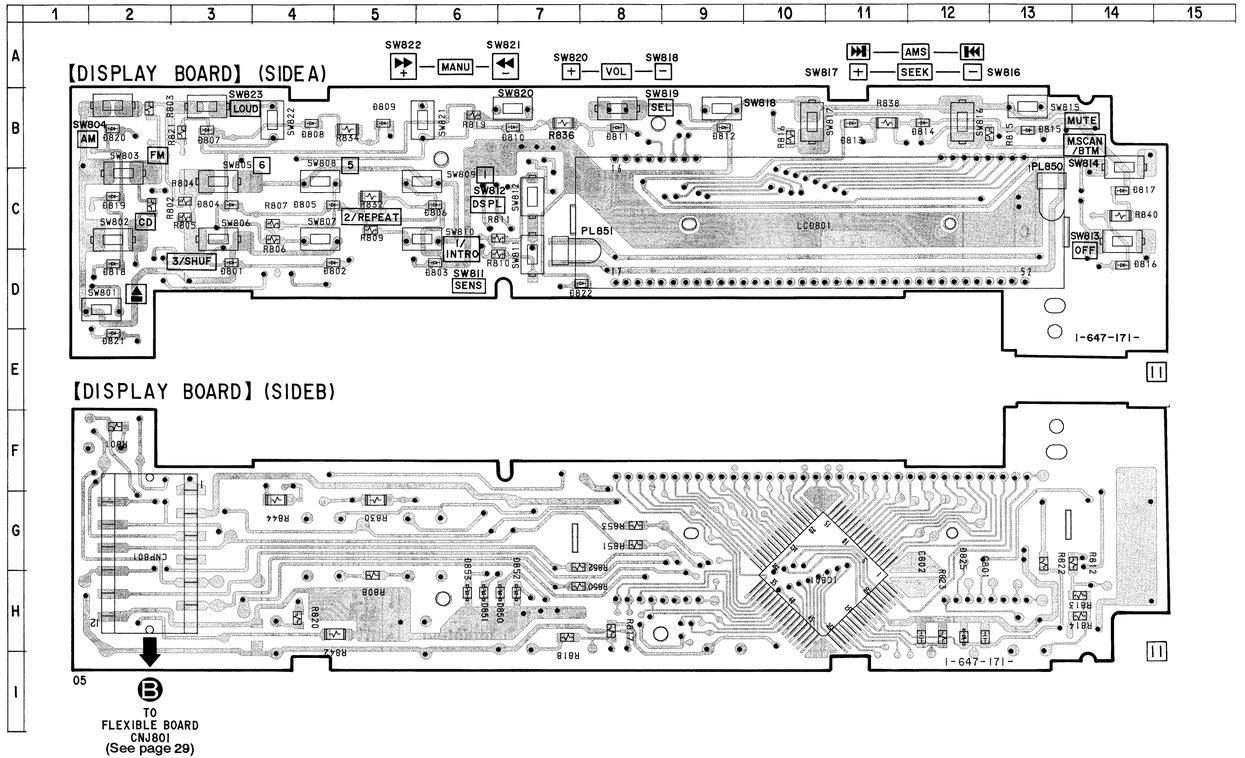
• See page 14 for Semiconductor Lead Layouts.

• Semiconductor Location

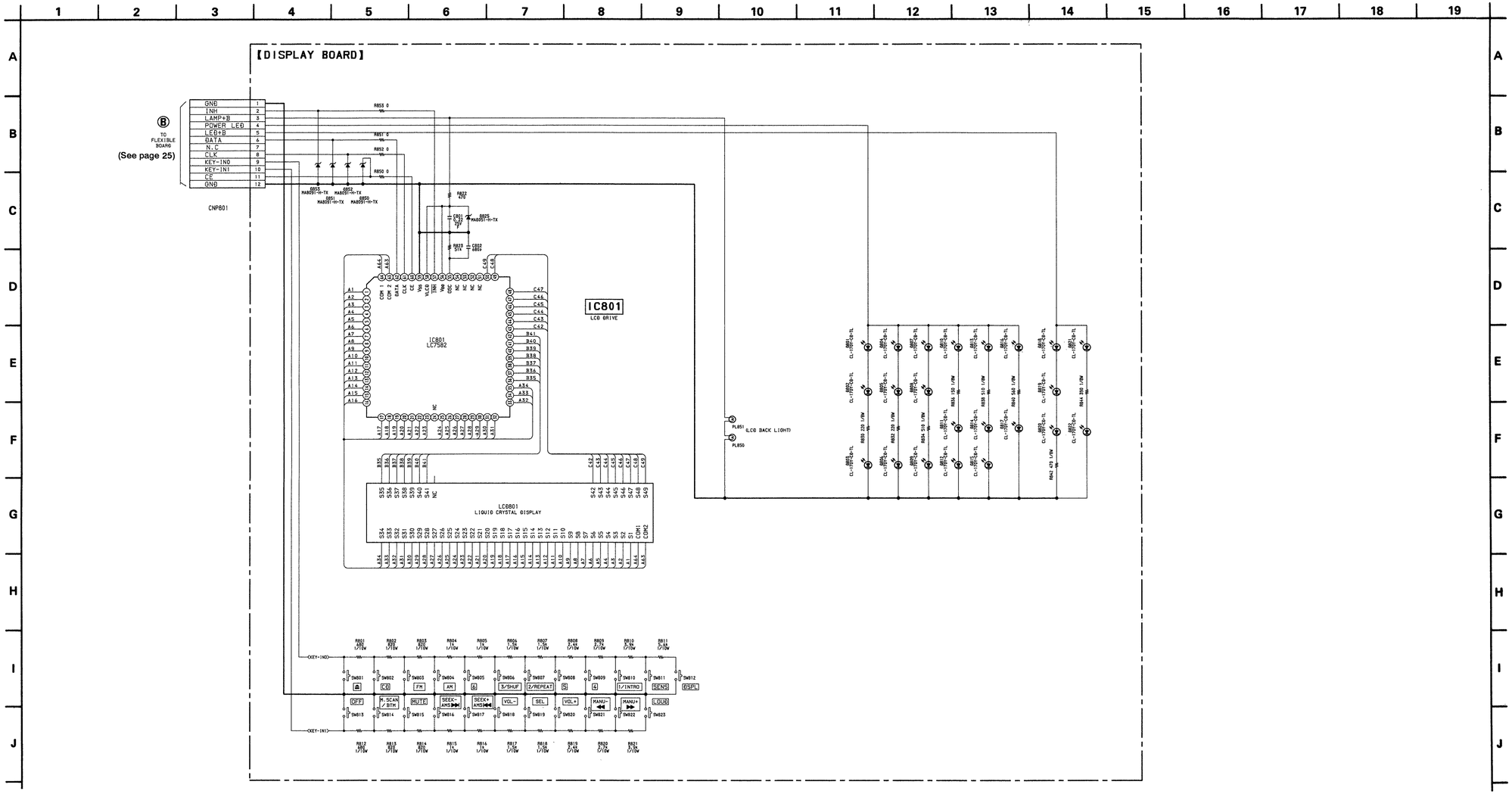
Ref. No.	Location
D801	D-3
D802	D-4
D803	D-5
D804	C-3
D805	C-4
D806	C-5
D807	B-3
D808	B-4
D809	B-5
D810	B-7
D811	B-8
D812	B-9
D813	B-11
D814	B-12
D815	B-13
D816	D-14
D817	C-14
D818	D-2
D819	C-2
D820	B-2
D821	E-2
D822	D-8
D825	H-12
D850	H-7
D851	H-6
D852	H-7
D853	H-6
IC801	G-10

Note:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enables seeing. (The other layers patterns are not indicated.)



3-7. SCHEMATIC DIAGRAM – DISPLAY Section –



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and¼ W or less unless otherwise specified.

SECTION 4
EXPLODED VIEWS

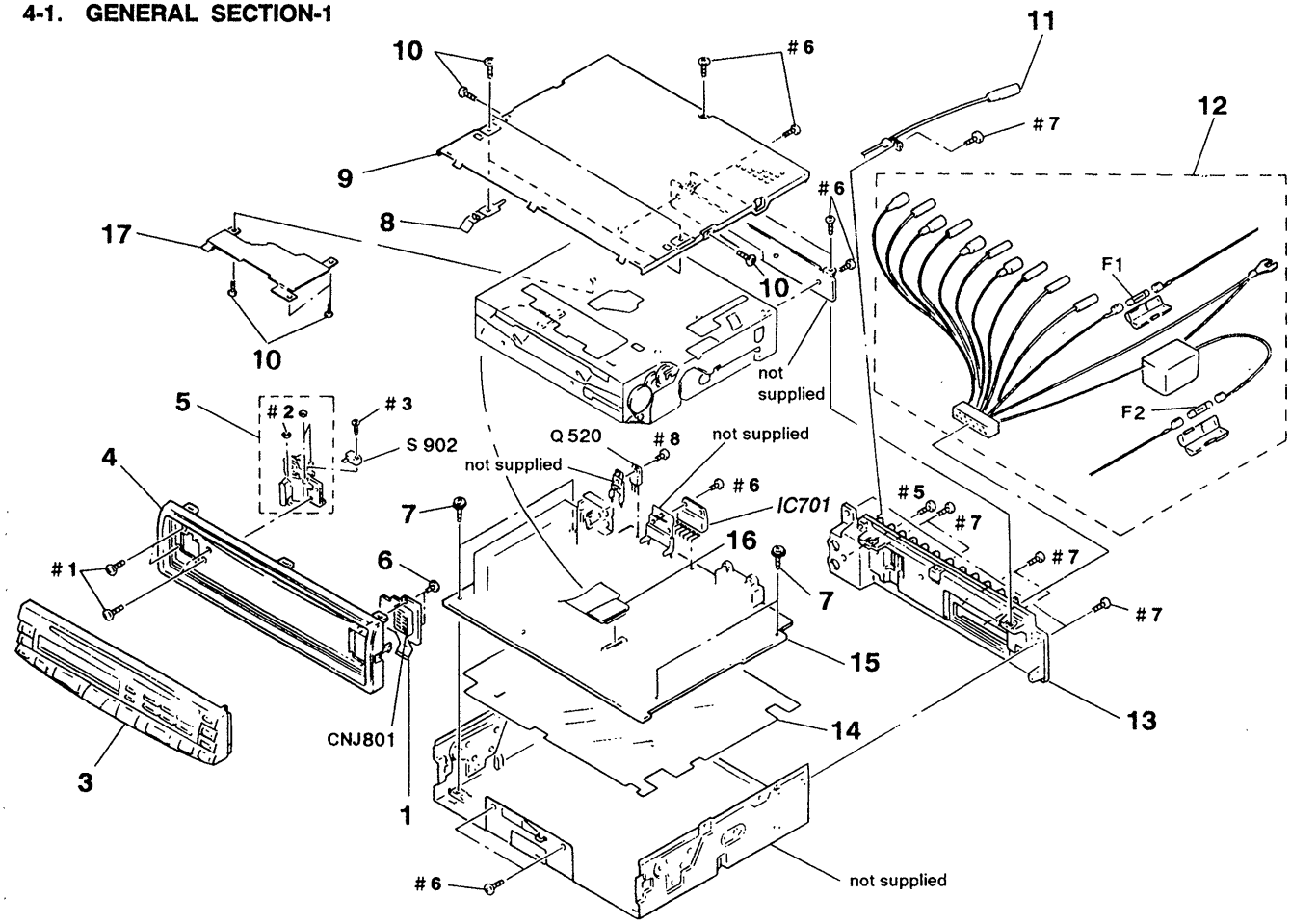
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

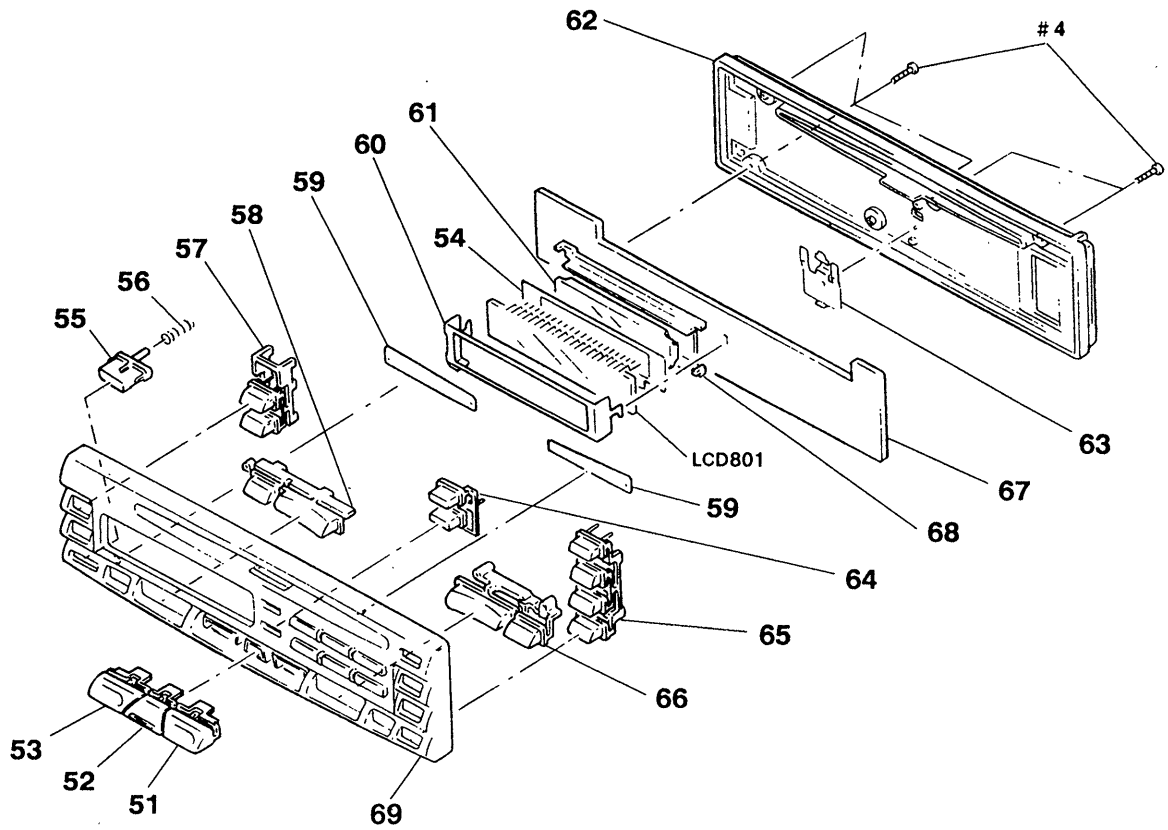
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

4-1. GENERAL SECTION-1



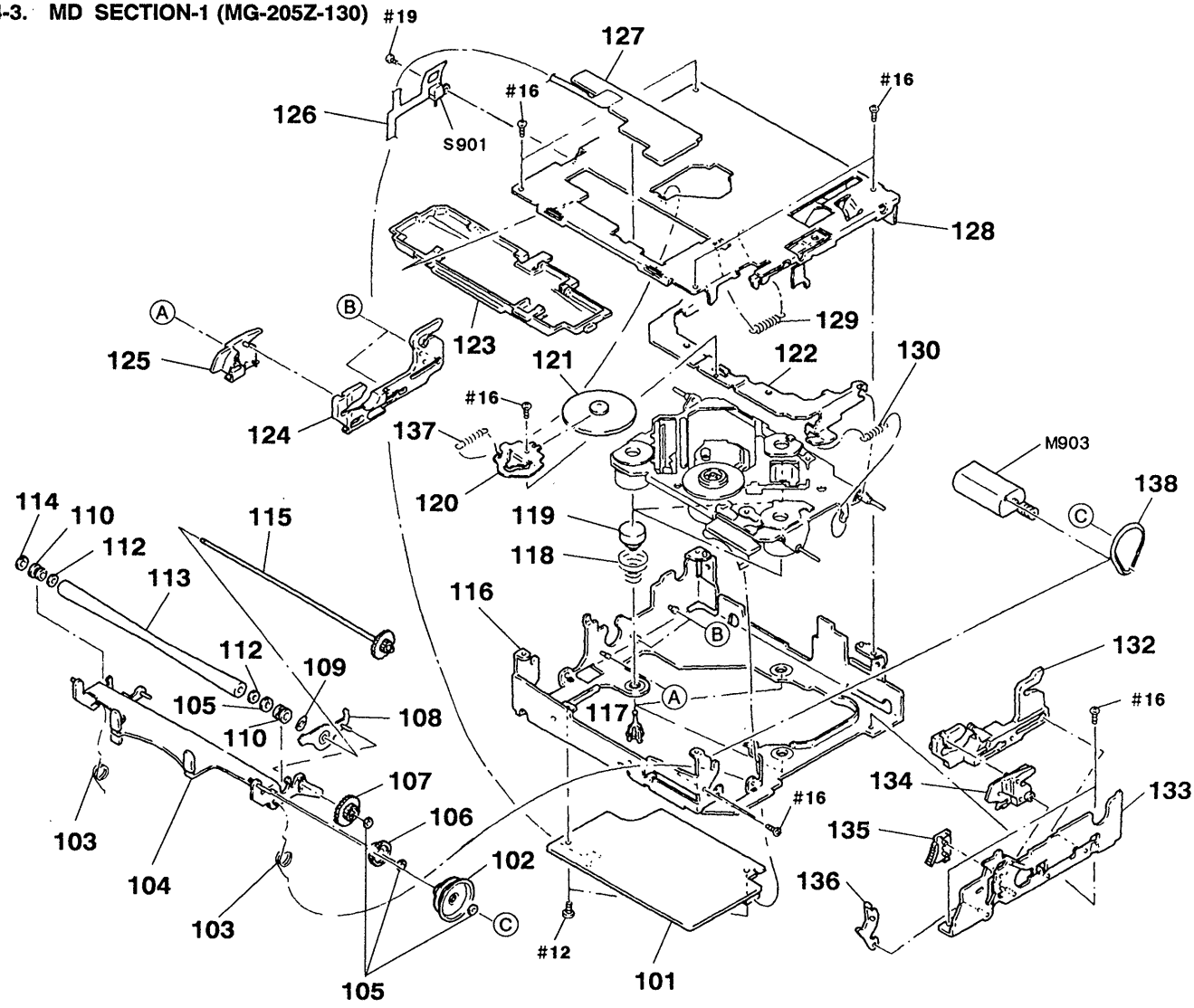
Ref. No.	Part No.	Description	Remark
1	1-646-953-11	FLEXIBLE BOARD	
3	A-3252-667-A	PANEL ASSY, FRONT (AEP, UK)	
3	A-3252-668-A	PANEL ASSY, FRONT (US, Canadian, E)	
4	X-3366-153-1	PANEL (SUB) ASSY	
5	X-3365-507-2	LOCK ASSY	
6	4-947-204-01	SCREW (M2X4)	
7	3-376-464-11	SCREW(+PTT 2.6X6), GROUND POINT	
* 8	3-386-597-01	PLATE, LOCK	
* 9	3-386-195-01	COVER	
10	3-363-433-02	SCREW	
11	1-751-077-11	CORD (WITH CONNECTOR)	
12	1-751-037-11	CORD (WITH CONNECTOR) (POWER)	
* 13	3-386-194-11	HEAT SINK	
* 14	3-386-189-01	SHEET, INSULATING	
* 15	A-3295-455-A	MAIN BOARD, COMPLETE (AEP, UK)	
* 15	A-3295-457-A	MAIN BOARD, COMPLETE (E)	
* 15	A-3295-459-A	MAIN BOARD, COMPLETE (US, Canadian)	
16	1-646-932-11	MD FLEXIBLE BOARD	
* 17	3-388-151-01	PLATE, SHIELD	
* CNJ801	1-691-558-21	SOCKET, CONNECTOR 12P	
⚠F1	1-532-360-XX	FUSE, GLASS TUBE (1A)	
⚠F2	1-532-678-11	FUSE, GLASS TUBE (12A)	
IC701	8-759-062-62	IC TDA1554Q	
Q520	8-729-019-00	TRANSISTOR 2SD2394-G	
S902	X-3366-172-1	SWITCH ASSY	

4-2. GENERAL SECTION-2



Ref. No.	Part No.	Description	Remark
51	3-384-648-01	BUTTON (+)	
52	3-384-650-01	BUTTON (SEL)	
53	3-384-649-01	BUTTON (-)	
54	3-386-190-01	SHEET (ILLUMINATOR)	
55	3-386-177-01	BUTTON (RELEASE)	
56	3-375-373-01	SPRING (RELEASE)	
57	3-386-175-01	BUTTON (2 GANG A)	
58	3-384-647-11	BUTTON (SEEK)	
59	3-386-187-01	SHEET (DOOR F)	
* 60	3-386-179-01	PLATE (LCD), GROUND	
61	3-386-185-01	PLATE (LCD), LIGHT GUIDE	
62	3-386-183-01	PANEL, FRONT BACK	
* 63	3-386-184-01	PLATE (FBP), GROUND	
64	3-386-176-01	BUTTON (2 GANG B)	
65	3-386-172-01	BUTTON (R4) (US, Canadian, E)	
65	3-386-172-11	BUTTON (R4) (AEP, UK)	
66	3-384-646-21	BUTTON (MANU)	
* 67	A-3222-567-A	DISPLAY BOARD, COMPLETE	
68	3-386-178-01	HOLDER (LCD)	
69	X-3366-157-1	PANEL ASSY, FRONT (US, Canadian, E)	
69	X-3366-620-1	PANEL ASSY, FRONT (AEP)	
LCD801	1-808-983-21	DISPLAY PANEL, LIQUID CRYSTAL	

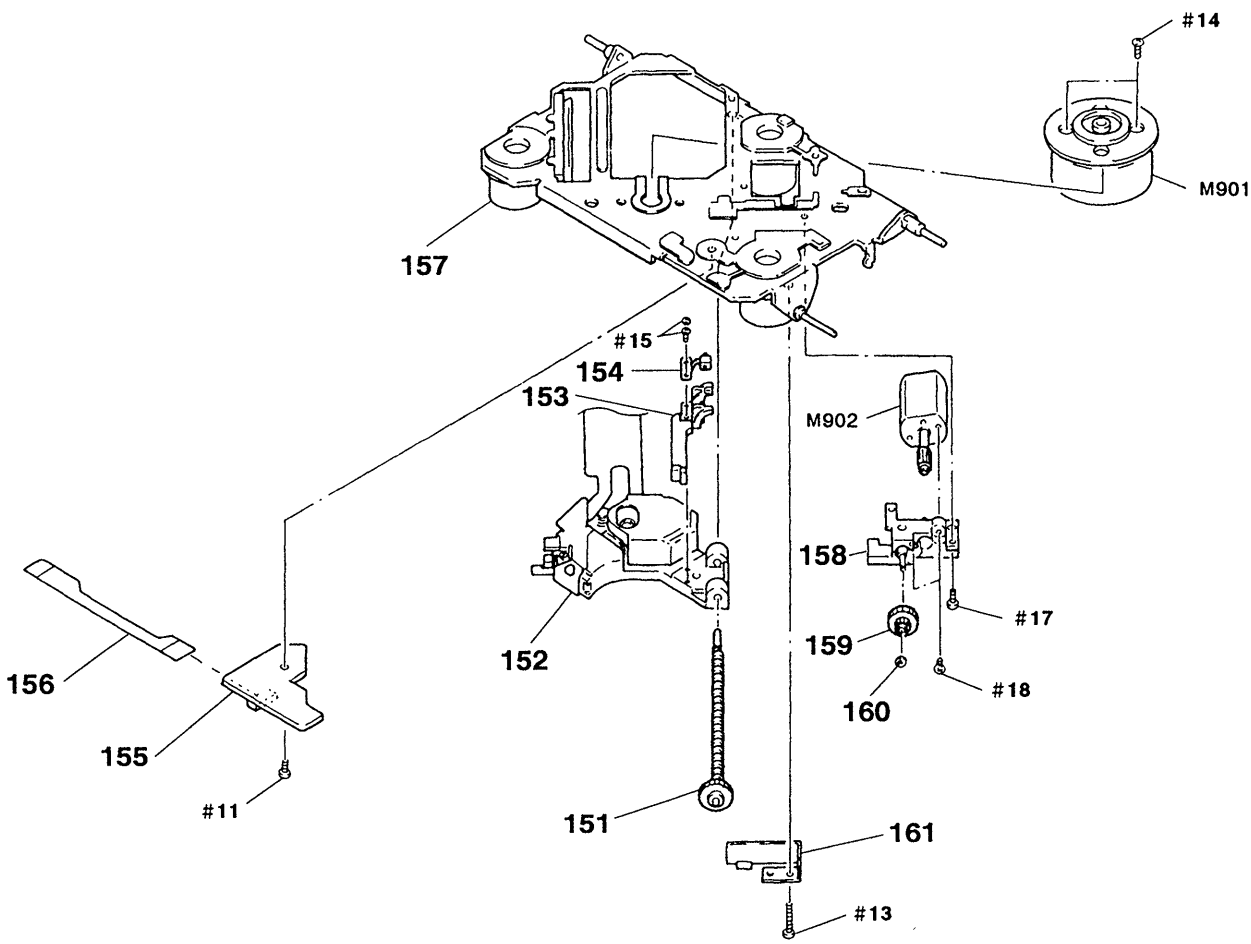
4-3. MD SECTION-1 (MG-205Z-130)



Ref. No.	Part No.	Description	Remark
* 101	A-3222-526-A	MD BOARD, COMPLETE	
102	3-384-894-01	GEAR (R1)	
103	3-384-900-01	SPRING (PRESS)	
* 104	X-3365-912-1	ARM ASSY, ROLLER	
105	3-578-242-11	WASHER	
106	3-384-895-01	GEAR (R2)	
107	3-384-896-01	GEAR (DOWN)	
108	X-3365-913-1	ARM ASSY, FRICTION	
109	3-384-899-01	SPRING (FRICTION)	
110	3-384-892-01	BEARING (ROLLER)	
112	3-701-438-11	WASHER, 2.5	
113	3-377-484-01	ROLLER (T)	
114	3-386-150-01	RING (ROLLER), RETAINING	
115	A-3252-591-A	GEAR ASSY, ROLLER	
* 116	X-3365-910-1	CHASSIS (M) ASSY	
117	3-384-923-01	SHAFT (DAMPER)	
118	3-384-916-01	SPRING (FL)	
119	3-384-914-01	DAMPER	
* 120	3-384-915-01	BRACKET (CP)	
* 121	3-384-918-01	RETAINER (DISC)	

Ref. No.	Part No.	Description	Remark
* 122	3-384-908-01	ARM, CHUCKING	
* 123	3-384-886-01	GUIDE (DISK)	
124	3-384-888-01	SLIDER (L)	
125	3-384-887-01	LEVER (L)	
126	1-646-401-11	SENSOR FLEXIBLE BOARD	
* 127	A-3222-525-A	SENSOR BOARD, COMPLETE	
* 128	X-3365-914-1	CHASSIS (T) ASSY	
129	3-384-881-01	SPRING, TENSION	
130	3-384-917-01	SPRING (CH)	
132	X-3366-102-1	SLIDER (R) ASSY	
* 133	X-3365-911-1	CHASSIS (R) ASSY	
134	3-384-889-01	LEVER (R)	
135	3-384-897-01	GEAR (RACK)	
136	3-384-891-01	LEVER (ST)	
137	3-578-388-00	SPRING, TENSION	
138	3-387-776-01	BELT (L)	
M903	A-3252-580-A	MOTOR (L) ASSY	
S901	1-692-441-11	SWITCH, MICRO (DISK DET)	

4-4. MD SECTION-2 (MG-205Z-130)



Ref. No.	Part No.	Description	Remark
151	A-3252-586-A	SHAFT (SL) ASSY	
⚠152	8-848-283-11	DEVICE, OPTICAL KSS-313A	
153	3-384-922-01	GEAR (SL FEED)	
154	2-625-516-01	SPRING (A), FEED	
* 155	1-646-397-11	MOTOR BOARD	
156	1-646-402-11	MOTOR FLEXIBLE BOARD	
* 157	X-3365-916-1	CHASSIS (OPT) ASSY (OUTSERT)	
158	X-3366-100-1	BASE (DRIVING) ASSY	
159	3-384-912-01	GEAR (K2)	
160	3-570-615-00	POLY-WASHER (DIA. 1.2)	
* 161	3-384-913-01	SPRING (THRUST RETAINER)	
M901	A-3252-628-A	MOTOR (SPINDLE) ASSY	
M902	A-3252-585-A	MOTOR (SL) ASSY	

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

DISPLAY

SECTION 5
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	A-3222-567-A	DISPLAY BOARD, COMPLETE			
		**********			
*	3-386-178-01	HOLDER (LCD)			
*	3-386-185-01	PLATE (LCD), LIGHT GUIDE			
*	3-386-190-01	SHEET (ILLUMINATOR)			
		< CAPACITOR >			
C801	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C802	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
		< CONNECTOR >			
* CNP801	1-691-557-11	PIN, CONNECTOR 12P			
		< DIODE >			
D801	8-719-033-13	DIODE	CL-170Y-CD		
D802	8-719-033-13	DIODE	CL-170Y-CD		
D803	8-719-033-13	DIODE	CL-170Y-CD		
D804	8-719-033-13	DIODE	CL-170Y-CD		
D805	8-719-033-13	DIODE	CL-170Y-CD		
D806	8-719-033-13	DIODE	CL-170Y-CD		
D807	8-719-033-13	DIODE	CL-170Y-CD		
D808	8-719-033-13	DIODE	CL-170Y-CD		
D809	8-719-033-13	DIODE	CL-170Y-CD		
D810	8-719-033-13	DIODE	CL-170Y-CD		
D811	8-719-033-13	DIODE	CL-170Y-CD		
D812	8-719-033-13	DIODE	CL-170Y-CD		
D813	8-719-033-13	DIODE	CL-170Y-CD		
D814	8-719-033-13	DIODE	CL-170Y-CD		
D815	8-719-033-13	DIODE	CL-170Y-CD		
D816	8-719-033-13	DIODE	CL-170Y-CD		
D817	8-719-033-13	DIODE	CL-170Y-CD		
D818	8-719-033-13	DIODE	CL-170Y-CD		
D819	8-719-033-13	DIODE	CL-170Y-CD		
D820	8-719-033-13	DIODE	CL-170Y-CD		
D821	8-719-033-13	DIODE	CL-170Y-CD		
D822	8-719-033-13	DIODE	CL-170Y-CD		
D825	8-719-422-43	DIODE	MA8051-H		
D850	8-719-422-97	DIODE	MA8091-M		
D851	8-719-422-97	DIODE	MA8091-M		
D852	8-719-422-97	DIODE	MA8091-M		
D853	8-719-422-97	DIODE	MA8091-M		
		< IC >			
IC801	8-759-821-44	IC	LC7582		
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-808-983-21	DISPLAY PANEL, LIQUID CRYSTAL			
		< PILOT LAMP >			
PL850	1-517-165-21	LAMP, PILOT			
PL851	1-517-165-21	LAMP, PILOT			
		< RESISTOR >			
R801	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R802	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R803	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R804	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R805	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R806	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R807	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R808	1-216-660-11	METAL CHIP	2.4K	0.5%	1/10W
R809	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R810	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R811	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R812	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R813	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R814	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R815	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R816	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R817	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R818	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R819	1-216-660-11	METAL CHIP	2.4K	0.5%	1/10W
R820	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R821	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R822	1-216-041-00	METAL CHIP	470	5%	1/10W
R823	1-216-090-00	METAL CHIP	51K	5%	1/10W
R828	1-216-182-00	METAL GLAZE	220	5%	1/8W
R830	1-216-182-00	METAL GLAZE	220	5%	1/8W
R832	1-216-182-00	METAL GLAZE	220	5%	1/8W
R834	1-216-182-00	METAL GLAZE	220	5%	1/8W
R836	1-216-182-00	METAL GLAZE	220	5%	1/8W
R840	1-216-188-00	METAL GLAZE	390	5%	1/8W
R842	1-216-182-00	METAL GLAZE	220	5%	1/8W
R844	1-216-182-00	METAL GLAZE	220	5%	1/8W
R850	1-216-295-00	METAL CHIP	0	5%	1/10W
R851	1-216-295-00	METAL CHIP	0	5%	1/10W
R852	1-216-295-00	METAL CHIP	0	5%	1/10W
R853	1-216-295-00	METAL CHIP	0	5%	1/10W
		< SWITCH >			
SW801	1-572-704-21	SWITCH, KEY BOARD (⏏)			
SW802	1-692-386-21	SWITCH (CD)			
SW803	1-692-386-21	SWITCH (FM)			
SW804	1-692-386-21	SWITCH (AM)			
SW805	1-692-386-21	SWITCH (6)			
SW806	1-692-386-21	SWITCH (3/SHUF)			
SW807	1-572-704-21	SWITCH, KEY BOARD (2/REPEAT)			
SW808	1-572-704-21	SWITCH, KEY BOARD (5)			
SW809	1-572-704-21	SWITCH, KEY BOARD (4)			
SW810	1-572-704-21	SWITCH, KEY BOARD (1/INTRO)			
SW811	1-572-704-21	SWITCH, KEY BOARD (SENS)			
SW812	1-572-704-21	SWITCH, KEY BOARD (DSPL)			
SW813	1-692-386-21	SWITCH (OFF)			
SW814	1-692-386-21	SWITCH (M. SCAN/BTM)			
SW815	1-572-704-21	SWITCH, KEY BOARD (MUTE)			
SW816	1-692-386-21	SWITCH (SEEK AMS -)			
SW817	1-692-386-21	SWITCH (SEEK AMS +)			
SW818	1-692-386-21	SWITCH (VOL -)			
SW819	1-692-386-21	SWITCH (SEL)			
SW820	1-572-704-21	SWITCH, KEY BOARD (VOL +)			
SW821	1-572-704-21	SWITCH, KEY BOARD (MANU -)			
SW822	1-572-704-21	SWITCH, KEY BOARD (MANU +)			
SW823	1-692-386-21	SWITCH (LOUD)			

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A-3295-455-A MAIN BOARD, COMPLETE (AEP, UK)
A-3295-457-A MAIN BOARD, COMPLETE (E)
A-3295-459-A MAIN BOARD, COMPLETE (US, Canadian)
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7-682-547-04 SCREW +PTT 3X6 (S)
7-621-770-67 SCREW +PTT 2.6X6 (S)

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C101	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C102	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C103	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C104	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C105	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C108	1-136-161-00	FILM	0.047uF	5%	50V
C109	1-130-479-00	MYLAR	0.0047uF	5%	50V
C110	1-126-157-11	ELECT	10uF	20%	16V
C111	1-130-481-00	MYLAR	0.0068uF	5%	50V
C112	1-126-157-11	ELECT	10uF	20%	16V
C113	1-136-169-00	FILM	0.22uF	5%	50V
C114	1-126-301-11	ELECT	1uF	20%	50V
C115	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C116	1-126-157-11	ELECT	10uF	20%	16V
C117	1-126-157-11	ELECT	10uF	20%	16V
C118	1-126-157-11	ELECT	10uF	20%	16V
C120	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C121	1-126-154-11	ELECT	47uF	20%	6.3V
C122	1-136-161-00	FILM	0.047uF	5%	50V
C123	1-126-301-11	ELECT	1uF	20%	50V
C124	1-126-301-11	ELECT	1uF	20%	50V
C125	1-126-301-11	ELECT	1uF	20%	50V
C126	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C142	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C143	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C201	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C202	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C203	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C204	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C205	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C206	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C207	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C208	1-136-161-00	FILM	0.047uF	5%	50V
C209	1-130-479-00	MYLAR	0.0047uF	5%	50V
C210	1-126-157-11	ELECT	10uF	20%	16V
C211	1-130-481-00	MYLAR	0.0068uF	5%	50V
C212	1-126-157-11	ELECT	10uF	20%	16V
C213	1-136-169-00	FILM	0.22uF	5%	50V
C214	1-126-301-11	ELECT	1uF	20%	50V
C215	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C216	1-126-157-11	ELECT	10uF	20%	16V
C217	1-126-157-11	ELECT	10uF	20%	16V
C218	1-126-157-11	ELECT	10uF	20%	16V
C220	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C221	1-126-154-11	ELECT	47uF	20%	6.3V

MAIN

Ref. No.	Part No.	Description			Remark
C222	1-136-161-00	FILM	0.047uF	5%	50V
C223	1-126-301-11	ELECT	1uF	20%	50V
C224	1-126-301-11	ELECT	1uF	20%	50V
C225	1-126-301-11	ELECT	1uF	20%	50V
C226	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C242	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C243	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C300	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C301	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C302	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C304	1-124-584-00	ELECT	100uF	20%	10V
C305	1-126-159-11	ELECT	0.47uF	20%	50V
C306	1-124-584-00	ELECT	100uF	20%	10V
C307	1-126-157-11	ELECT	10uF	20%	16V
C308	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C309	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C310	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C313	1-124-584-00	ELECT	100uF	20%	10V
C501	1-124-360-00	ELECT	1000uF	20%	16V
C502	1-124-343-00	ELECT	2200uF	20%	16V
C506	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C507	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C508	1-124-584-00	ELECT	100uF	20%	10V
C509	1-126-157-11	ELECT	10uF	20%	16V
C510	1-124-584-00	ELECT	100uF	20%	10V
C511	1-125-701-11	CAP, DOUBLE LAYER			0.047F
C512	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C513	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C514	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C515	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C519	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C520	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C521	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C522	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C523	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C525	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C526	1-128-057-11	ELECT	330uF	20%	6.3V
C527	1-128-057-11	ELECT	330uF	20%	6.3V
C528	1-126-157-11	ELECT	10uF	20%	16V
C530	1-126-157-11	ELECT	10uF	20%	16V
C540	1-128-057-11	ELECT	330uF	20%	6.3V
C550	1-126-154-11	ELECT	47uF	20%	6.3V
C601	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C602	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C604	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C605	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C606	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C607	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C608	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C609	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C610	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C611	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C612	1-136-169-00	FILM	0.22uF	5%	50V
C613	1-130-479-00	MYLAR	0.0047uF	5%	50V
C617	1-124-589-11	ELECT	47uF	20%	16V
C618	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C619	1-124-589-11	ELECT	47uF	20%	16V
C620	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C621	1-128-054-11	ELECT	22uF	20%	10V
C622	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C626	1-126-157-11	ELECT	10uF	20%	16V
C627	1-126-162-11	ELECT	3.3uF	20%	50V
C698	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C699	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C705	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C706	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C731	1-126-925-11	ELECT	470uF	20%	10V
C732	1-124-234-00	ELECT	22uF	20%	16V
C750	1-124-360-00	ELECT	1000uF	20%	16V
C755	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C756	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V

< JACK >

CNJ51	1-750-087-11	JACK, PIN 2P	

< CONNECTOR >

* CNP501	1-750-064-11	PLUG, CONNECTOR 15P	
* CNP502	1-750-512-21	CONNECTOR, FPC 13P	
* CNP504	1-695-953-31	CONNECTOR, BOARD TO BOARD 30P	
* CNP506	1-750-241-21	PIN, CONNECTOR (PC BOARD) 3P	
* CNP507	1-695-320-11	PIN, CONNECTOR (1.5MM) (SMD) 2P	

< DIODE >

D101	8-719-982-08	DIODE	MTZJ-3.9B
D201	8-719-982-08	DIODE	MTZJ-3.9B
D500	8-719-017-67	DIODE	MA8068H
D501	8-719-921-82	DIODE	MTZJ-12
D505	8-719-921-60	DIODE	MTZJ-6.8C
D506	8-719-921-96	DIODE	MTZJ-16B
D507	8-719-921-43	DIODE	MTZJ-5.1B
D508	8-719-921-43	DIODE	MTZJ-5.1B
D509	8-719-104-34	DIODE	1S2836
D512	8-719-921-47	DIODE	MTZJ-5.6B
D513	8-719-026-43	DIODE	SFPB-74V
D514	8-719-026-43	DIODE	SFPB-74V
D518	8-719-921-54	DIODE	MTZJ-6.2B

Ref. No.	Part No.	Description	Remark
D521	8-719-104-34	DIODE 1S2836	
D523	8-719-921-47	DIODE MTZJ-5.6B	
D526	8-719-921-59	DIODE MTZJ-6.8B	
D529	8-719-921-59	DIODE MTZJ-6.8B	
D531	8-719-921-59	DIODE MTZJ-6.8B	
D532	8-719-921-59	DIODE MTZJ-6.8B	
D533	8-719-921-43	DIODE MTZJ-5.1B	
D550	8-719-400-18	DIODE MA152WK	
D601	8-719-800-76	DIODE 1SS226	
D602	8-719-800-76	DIODE 1SS226	
D731	8-719-800-76	DIODE 1SS226	
		< IC >	
IC301	8-759-093-98	IC CXD8451M	
IC302	8-752-063-44	IC CXA1646Q	
IC304	8-759-700-43	IC NJM4558M	
IC305	8-759-700-43	IC NJM4558M	
IC306	8-759-700-43	IC NJM4558M	
IC307	8-759-924-46	IC BA4560F	
IC501	8-759-167-49	IC uPD75518GF-089-3B9	
IC502	8-759-940-45	IC S-8054HN-CB	
IC503	8-759-167-50	IC BA3910	
IC552	8-759-932-86	IC BU4081BF	
IC603	8-759-823-81	IC LC7216M	
IC701	8-759-062-62	IC TDA1554Q	
		< COIL >	
L301	1-410-973-11	INDUCTOR 22uH	
L303	1-410-973-11	INDUCTOR 22uH	
L501	1-410-973-11	INDUCTOR 22uH	
L602	1-410-973-11	INDUCTOR 22uH	
		< TRANSISTOR >	
Q100	8-729-920-21	TRANSISTOR DTC314TKH04	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q200	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-020-67	TRANSISTOR XN1A312-TX	
Q501	8-729-429-92	TRANSISTOR XN1211	
Q502	8-729-020-67	TRANSISTOR XN1A312-TX	
Q504	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q508	8-729-209-15	TRANSISTOR 2SD2012	
Q511	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
Q513	8-729-901-00	TRANSISTOR DTC124EK	
Q514	8-729-020-67	TRANSISTOR XN1A312-TX	
Q515	8-729-020-67	TRANSISTOR XN1A312-TX	

Ref. No.	Part No.	Description	Remark
Q517	8-729-424-59	TRANSISTOR UN2212	
Q519	8-729-424-59	TRANSISTOR UN2212	
Q520	8-729-019-00	TRANSISTOR 2SD2394-G	
Q521	8-729-422-87	TRANSISTOR 2SB1073-R	
Q522	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q523	8-729-424-59	TRANSISTOR UN2212	
Q524	8-729-402-13	TRANSISTOR XN1501	
Q550	8-729-421-19	TRANSISTOR UN2213	
Q601	8-729-809-71	TRANSISTOR 2SK536	
Q605	8-729-424-59	TRANSISTOR UN2212	
Q701	8-729-424-59	TRANSISTOR UN2212	
Q702	8-729-424-59	TRANSISTOR UN2212	
		< RESISTOR >	
R100	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R101	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R102	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R103	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R104	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R105	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R106	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R107	1-216-843-11	METAL CHIP 68K 5% 1/16W	
R108	1-216-843-11	METAL CHIP 68K 5% 1/16W	
R109	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R110	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R111	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R112	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R113	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R114	1-216-838-11	METAL CHIP 27K 5% 1/16W	
R115	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R116	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R117	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R118	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R200	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R201	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R202	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R203	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R204	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R205	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R206	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R207	1-216-843-11	METAL CHIP 68K 5% 1/16W	
R208	1-216-843-11	METAL CHIP 68K 5% 1/16W	
R209	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R210	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R211	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R212	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R213	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R214	1-216-838-11	METAL CHIP 27K 5% 1/16W	
R215	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	

MAIN

Ref. No.	Part No.	Description			Remark
R216	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W
R218	1-216-073-00	METAL CHIP	10K	5%	1/10W
R302	1-216-001-00	METAL CHIP	10	5%	1/10W
R303	1-216-001-00	METAL CHIP	10	5%	1/10W
R304	1-216-001-00	METAL CHIP	10	5%	1/10W
R305	1-216-815-11	METAL CHIP	330	5%	1/16W
R310	1-216-025-00	METAL CHIP	100	5%	1/10W
R311	1-216-025-00	METAL CHIP	100	5%	1/10W
R312	1-216-025-00	METAL CHIP	100	5%	1/10W
R501	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R502	1-216-841-11	METAL CHIP	47K	5%	1/16W
R505	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R506	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R507	1-216-847-11	METAL CHIP	150K	5%	1/16W
R509	1-216-295-00	METAL CHIP	0	5%	1/10W
R510	1-216-089-00	METAL CHIP	47K	5%	1/10W
R511	1-216-841-11	METAL CHIP	47K	5%	1/16W
R512	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R513	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R514	1-216-035-00	METAL CHIP	270	5%	1/10W
R517	1-216-845-11	METAL CHIP	100K	5%	1/16W
R518	1-216-073-00	METAL CHIP	10K	5%	1/10W
R519	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R520	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R521	1-216-105-00	METAL CHIP	220K	5%	1/10W
R522	1-216-079-00	METAL CHIP	18K	5%	1/10W
R524	1-216-049-00	METAL CHIP	1K	5%	1/10W
R525	1-216-049-00	METAL CHIP	1K	5%	1/10W
R526	1-216-025-00	METAL CHIP	100	5%	1/10W
R527	1-216-049-00	METAL CHIP	1K	5%	1/10W
R528	1-216-025-00	METAL CHIP	100	5%	1/10W
R529	1-216-025-00	METAL CHIP	100	5%	1/10W
R530	1-216-073-00	METAL CHIP	10K	5%	1/10W
R531	1-216-073-00	METAL CHIP	10K	5%	1/10W
R534	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R535	1-216-089-00	METAL CHIP	47K	5%	1/10W
R536	1-216-073-00	METAL CHIP	10K	5%	1/10W
R541	1-216-089-00	METAL CHIP	47K	5%	1/10W
R542	1-216-105-00	METAL CHIP	220K	5%	1/10W
R543	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R547	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R548	1-216-073-00	METAL CHIP	10K	5%	1/10W
R549	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R550	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R551	1-216-097-00	METAL CHIP	100K	5%	1/10W
R552	1-216-097-00	METAL CHIP	100K	5%	1/10W
R553	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R554	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R556	1-216-073-00	METAL CHIP	10K	5%	1/10W
R557	1-216-105-00	METAL CHIP	220K	5%	1/10W
R559	1-216-089-00	METAL CHIP	47K	5%	1/10W
R560	1-216-097-00	METAL CHIP	100K	5%	1/10W
R561	1-216-097-00	METAL CHIP	100K	5%	1/10W
R562	1-216-845-11	METAL CHIP	100K	5%	1/16W
R563	1-216-845-11	METAL CHIP	100K	5%	1/16W
R571	1-216-821-11	METAL CHIP	1K	5%	1/16W
R572	1-216-105-00	METAL CHIP	220K	5%	1/10W
R573	1-216-105-00	METAL CHIP	220K	5%	1/10W
R574	1-216-105-00	METAL CHIP	220K	5%	1/10W
R582	1-216-105-00	METAL CHIP	220K	5%	1/10W
R583	1-216-849-11	METAL CHIP	220K	5%	1/16W
R585	1-216-073-00	METAL CHIP	10K	5%	1/10W
R586	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R587	1-216-851-11	METAL CHIP	330K	5%	1/16W
R588	1-216-841-11	METAL CHIP	47K	5%	1/16W
R589	1-216-841-11	METAL CHIP	47K	5%	1/16W
R590	1-216-841-11	METAL CHIP	47K	5%	1/16W
R591	1-216-841-11	METAL CHIP	47K	5%	1/16W
R592	1-216-821-11	METAL CHIP	1K	5%	1/16W
R593	1-216-833-11	METAL CHIP	10K	5%	1/16W
R594	1-216-073-00	METAL CHIP	10K	5%	1/10W
R599	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R600	1-216-821-11	METAL CHIP	1K	5%	1/16W
R601	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R602	1-216-073-00	METAL CHIP	10K	5%	1/10W
R603	1-216-821-11	METAL CHIP	1K	5%	1/16W
R604	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R605	1-216-073-00	METAL CHIP	10K	5%	1/10W
R606	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R607	1-216-073-00	METAL CHIP	10K	5%	1/10W
R608	1-216-041-00	METAL CHIP	470	5%	1/10W
R609	1-216-097-00	METAL CHIP	100K	5%	1/10W
R615	1-216-113-00	METAL CHIP	470K	5%	1/10W
R621	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R622	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R624	1-216-073-00	METAL CHIP	10K	5%	1/10W
R625	1-216-073-00	METAL CHIP	10K	5%	1/10W
R630	1-216-295-00	METAL CHIP	0	5%	1/10W
R631	1-216-049-00	METAL CHIP	1K	5%	1/10W
R731	1-216-089-00	METAL CHIP	47K	5%	1/10W
R732	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R733	1-216-097-00	METAL CHIP	100K	5%	1/10W

< SWITCH >

SW501	1-572-272-11	SWITCH, SLIDE (POWER SEL)
SW502	1-572-272-11	SWITCH, SLIDE (CHANNEL SPACE) (E)

Ref. No.	Part No.	Description			Remark
		< THERMISTOR >			
TH501	1-806-715-11	THERMISTOR			
TH502	1-806-715-11	THERMISTOR			
		< VIBRATOR >			
X301	1-567-820-11	VIBRATOR, CRYSTAL (16.934MHz)			
X502	1-579-886-21	VIBRATOR, CRYSTAL (32KHz)			
X503	1-567-776-21	VIBRATOR, CERAMIC (6MHz)			
X601	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)			
**********					
*	A-3222-526-A	MD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C2	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C3	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C4	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C5	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C6	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C7	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C8	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C9	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C10	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C11	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C12	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C13	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C14	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C15	1-126-191-11	ELECT CHIP	0.47uF	20%	50V
C16	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C17	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C18	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C19	1-128-361-11	ELECT	470uF	20%	10V
C20	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C21	1-164-346-11	CERAMIC CHIP	1uF		16V
C22	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C23	1-164-346-11	CERAMIC CHIP	1uF		16V
C24	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C25	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C27	1-135-166-21	TANTALUM CHIP	47uF	10%	10V
C28	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C30	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C31	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C32	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C34	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V

Ref. No.	Part No.	Description			Remark
		< JACK >			
CNJ1	1-565-728-11	CONNECTOR, FPC 17P			
* CNJ2	1-750-159-21	CONNECTOR, FPC 5P			
* CNJ3	1-750-160-21	CONNECTOR, FPC 7P			
* CNJ4	1-750-161-21	CONNECTOR, FPC 30P			
		< CONNECTOR >			
* CNP1	1-580-055-21	PIN, CONNECTOR 2P			
		< IC >			
IC1	8-752-059-30	IC CXA1610M			
IC2	8-752-351-94	IC CXD2515Q			
IC3	8-759-823-87	IC LB1638M			
IC4	8-759-925-72	IC SN74HC02ANS			
IC5	8-759-087-55	IC MPC1732MR2			
IC6	8-759-087-53	IC MPC1730MR2			
		< JUMPER RESISTOR >			
JR1	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L1	1-412-058-11	INDUCTOR CHIP	10uH		
L2	1-412-058-11	INDUCTOR CHIP	10uH		
L3	1-412-058-11	INDUCTOR CHIP	10uH		
		< TRANSISTOR >			
Q1	8-729-018-00	PHOTO TRANSISTOR ST-308			
Q2	8-729-018-00	PHOTO TRANSISTOR ST-308			
Q4	8-729-018-00	PHOTO TRANSISTOR ST-308			
Q5	8-729-141-48	TRANSISTOR 2SB624-BV345			
		< RESISTOR >			
R1	1-216-024-00	METAL GLAZE	91	5%	1/10W
R2	1-216-001-00	METAL CHIP	10	5%	1/10W
R4	1-216-077-00	METAL CHIP	15K	5%	1/10W
R5	1-216-073-00	METAL CHIP	10K	5%	1/10W
R6	1-216-073-00	METAL CHIP	10K	5%	1/10W
R7	1-216-099-00	METAL CHIP	120K	5%	1/10W
R8	1-216-081-00	METAL CHIP	22K	5%	1/10W
R9	1-216-075-00	METAL CHIP	12K	5%	1/10W
R10	1-216-075-00	METAL CHIP	12K	5%	1/10W
R11	1-216-083-00	METAL CHIP	27K	5%	1/10W
R12	1-216-835-11	METAL CHIP	15K	5%	1/16W
R13	1-216-835-11	METAL CHIP	15K	5%	1/16W
R14	1-216-845-11	METAL CHIP	100K	5%	1/16W
R15	1-216-839-11	METAL CHIP	33K	5%	1/16W
R16	1-216-061-00	METAL CHIP	3.3K	5%	1/10W

MD **MOTOR** **SENSOR** **FLEXBLE**

Ref. No.	Part No.	Description			Remark
R17	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W
R19	1-216-121-00	METAL CHIP	1M	5%	1/10W
R20	1-216-097-00	METAL CHIP	100K	5%	1/10W
R21	1-216-073-00	METAL CHIP	10K	5%	1/10W
R22	1-216-033-00	METAL CHIP	220	5%	1/10W
R23	1-216-033-00	METAL CHIP	220	5%	1/10W
R24	1-216-033-00	METAL CHIP	220	5%	1/10W
R25	1-216-073-00	METAL CHIP	10K	5%	1/10W
R32	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV1	1-238-091-11	RES, ADJ, CERMET	22K		
RV2	1-238-091-11	RES, ADJ, CERMET	22K		
		< SWITCH >			
SW1	1-571-754-31	SWITCH, PUSH (1 KEY)			
**********					
*	1-646-397-11	MOTOR BOARD			
		**********			
	1-646-402-11	MOTOR FLEXIBLE BOARD			
		< JACK >			
* CNJ303	1-750-160-21	CONNECTOR, FPC 7P			
		< CONNECTOR >			
* CNP301	1-580-055-21	PIN, CONNECTOR 2P			
* CNP302	1-580-055-21	PIN, CONNECTOR 2P			
		< SWITCH >			
S301	1-572-467-31	SWITCH, PUSH (1 KEY)			
**********					
*	A-3222-525-A	SENSOR BOARD, COMPLETE			
		**********			
	1-646-401-11	SENSOR FLEXIBLE BOARD			
		< DIODE >			
D801	8-719-029-26	DIODE EL-308			
D802	8-719-029-26	DIODE EL-308			
D804	8-719-029-26	DIODE EL-308			
		< RESISTOR >			
R801	1-216-045-00	METAL CHIP	680	5%	1/10W
R802	1-216-045-00	METAL CHIP	680	5%	1/10W
R804	1-216-045-00	METAL CHIP	680	5%	1/10W

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S901	1-692-441-11	SWITCH, MICROPHONE	
**********			
	1-646-953-11	FLEXIBLE BOARD	
		**********	
		< JACK >	
* CNJ801	1-691-558-21	SOCKET, CONNECTOR 12P	
		< SWITCH >	
S801	1-554-371-51	SWITCH, TACT (RESET)	
**********			
		MISCELLANEOUS	
		**********	
11	1-751-077-11	CORD (WITH CONNECTOR)	
12	1-751-037-11	CORD (WITH CONNECTOR) (POWER)	
16	1-646-932-11	MD FLEXIBLE BOARD	
⚠152	8-848-283-11	DEVICE, OPTICAL KSS-313A	
156	1-646-402-11	MOTOR FLEXIBLE BOARD	
⚠F1	1-532-360-XX	FUSE, GLASS TUBE (1A)	
⚠F2	1-532-678-11	FUSE, GLASS TUBE (12A)	
M901	A-3252-628-A	MOTOR (SPINDLE) ASSY	
M902	A-3252-585-A	MOTOR (SL) ASSY	
M903	A-3252-580-A	MOTOR (L) ASSY	
S901	1-692-441-11	SWITCH, MICRO (DISK DET)	
S902	X-3366-172-1	SWITCH ASSY	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
*	3-355-207-01	CARDBOARD (E)	
*	3-387-250-01	CUSHION (UPPER)	
*	3-387-251-01	CUSHION (LOWER)	
*	3-387-666-01	INDIVIDUAL CARTON (US, Canadian, E)	
*	3-388-468-01	INDIVIDUAL CARTON (AEP, UK)	
	3-756-447-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US, Canadian)	
	3-756-447-51	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE) (E)	
	3-756-447-71	MANUAL, INSTRUCTION (ENGLISH, FRENCH, DUTCH) (AEP, UK)	
	3-756-448-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (US, Canadian)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
	3-756-448-51	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, CHINESE) (E)	
	3-756-448-71	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, DUTCH) (AEP, UK)	
*	4-885-838-00	LABEL, CLASS 1 (AEP, UK)	
	X-3365-034-1	CASE ASSY	

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****
HARDWARE LIST
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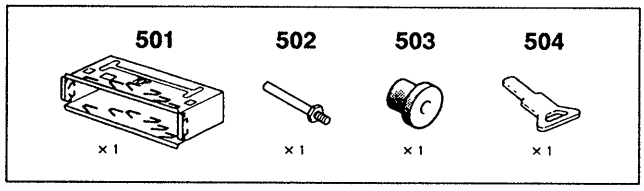
#1	7-621-772-10	SCREW +B 2X4
#2	7-624-101-01	STOP RING 1.2 (E TYPE)
#3	7-627-853-57	PRECISION SCREW +P 2X5 TYPE3
#4	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT
#5	7-685-647-79	SCREW +P 3X10 TYPE2 SLIT
#6	7-621-770-67	SCREW +PTT 2.6X6 (S)
#7	7-621-770-XX	SCREW +PTT 2.6X8 (S)
#8	7-682-547-04	SCREW +PTT 3X6 (S)
#11	7-621-771-06	SCREW +B 2X5
#12	7-621-772-08	SCREW +B 2X3
#13	7-621-772-60	SCREW +B 2X12
#14	7-627-552-07	SCREW, PRECISION +P 1.7X2.5
#15	7-627-552-47	SCREW, PRECISION +P 1.7X4
#16	7-627-553-27	SCREW, PRECISION +P 2X2.5
#17	7-627-553-37	SCREW, PRECISION +P 2X3
#18	7-627-553-67	SCREW, PRECISION +P 2X5
#19	7-627-553-18	SCREW, PRECISION +P 2X2

• MOUNTING HARDWARE



* 501	X-3366-235-1	FRAME ASSY
502	3-386-828-01	SCREW, FITTING
503	3-349-410-01	BUSHING
504	3-388-078-01	KEY

9-957-789-11

Sony Corporation
Mobile Electronics Group

English
93C0554-1
Printed in Japan
© 1993. 3
Published by Audio Corporate Planning Group

CDX-5060

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model
UK Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject:
1. Correction
2. Block Diagram
3. IC Pin Description
4. Test Mode
5. Electrical Adjustments

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MICROFILM

SECTION 1
CORRECTION

1-1. CORRECTION OF THE ELECTRICAL PARTS LIST

Correct your service manual as shown below.

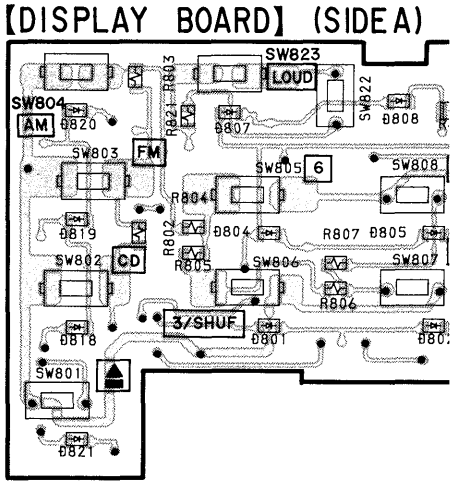
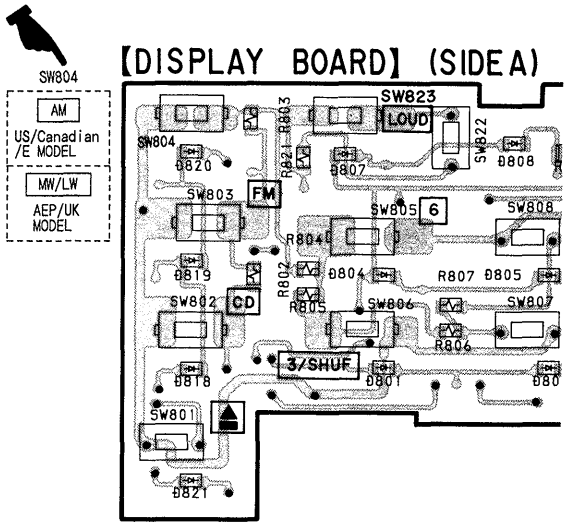
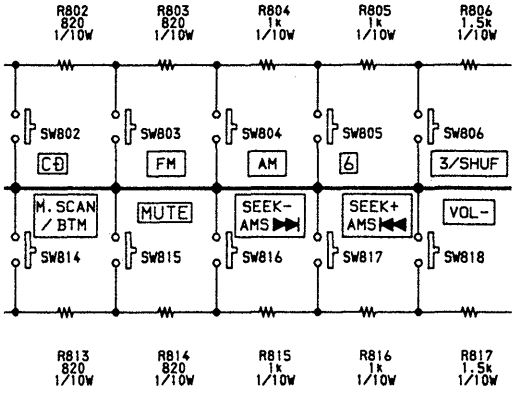
Page	Ref. No.	Incorrect					Correct				
		Part No.	Description				Part No.	Description			
	SW804	1-692-386-21	SWITCH (AM)				1-692-386-21	SWITCH (AM) (US, Canadian, E) (MW/LW) (AEP, UK)			
	C122	1-136-161-00	FILM	0.047uF	5%	50V	1-136-161-00	FILM	0.047uF	5%	50V
43								(US, Canadian)			
							1-136-159-00	FILM	0.033uF	5%	50V
								(AEP, E)			
	C123	1-126-301-11	ELECT	1uF	20%	50V	1-164-346-11	CERAMIC CHIP	1uF		16V
	C124	1-126-301-11	ELECT	1uF	20%	50V		————			
	C125	1-126-301-11	ELECT	1uF	20%	50V		————			
	C198		————				1-162-638-11	CERAMIC CHIP	1uF		16V
	C199		————				1-162-638-11	CERAMIC CHIP	1uF		16V
	C222	1-136-161-00	FILM	0.047uF	5%	50V	1-136-161-00	FILM	0.047uF	5%	50V
								(US, Canadian)			
							1-136-159-00	FILM	0.033uF	5%	50V
								(AEP, E)			
	C223	1-126-301-11	ELECT	1uF	20%	50V	1-164-346-11	CERAMIC CHIP	1uF		16V
	C224	1-126-301-11	ELECT	1uF	20%	50V		————			
	C225	1-126-301-11	ELECT	1uF	20%	50V		————			
	C298		————				1-162-638-11	CERAMIC CHIP	1uF		16V
	C299		————				1-162-638-11	CERAMIC CHIP	1uF		16V
	C501	1-124-360-00	ELECT	1000uF	20%	16V		————			
	C509	1-126-157-11	ELECT	10uF	20%	16V		————			
	C513	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
44	C514	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
	C528	1-126-157-11	ELECT	10uF	20%	16V	1-135-159-21	TANTALUM CHIP	10uF	10%	20V
	C530	1-126-157-11	ELECT	10uF	20%	16V		————			
	C571		————				1-135-159-21	TANTALUM CHIP	10uF	10%	20V
	C572		————				1-135-159-21	TANTALUM CHIP	10uF	10%	20V
	C574		————				1-135-159-21	TANTALUM CHIP	10uF	10%	20V
	C610	1-163-038-00	CERAMIC CHIP	0.1uF		25V	1-163-038-00	CERAMIC CHIP	0.1uF		25V
								(US, Canadian)			
	C622	1-163-038-00	CERAMIC CHIP	0.1uF		25V	1-164-222-11	CERAMIC CHIP	0.22uF		25V
	C697		————				1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
	D02		————				8-719-911-19	DIODE 1SS119			
	D515		————				8-719-921-98	DIODE MTZJ-T-9118			
	D516		————				8-719-921-98	DIODE MTZJ-T-9118			
	D601	8-719-800-76	DIODE 1SS226					————			
	D602	8-719-800-76	DIODE 1SS226					————			
	D699		————				8-719-981-59	DIODE FC805			
	R01		————				1-216-296-00	METAL CHIP	0	5%	1/8W
	R02		————				1-259-882-11	CARBON	3.3M	5%	1/4W
	R111	1-216-075-00	METAL CHIP	12k	5%	1/10W	1-216-075-00	METAL CHIP	12k	5%	1/10W
45								(US, Canadian)			
							1-216-082-00	METAL GLAZE	24k	5%	1/10W
								(AEP, E)			
	R211	1-216-075-00	METAL CHIP	12k	5%	1/10W	1-216-075-00	METAL CHIP	12k	5%	1/10W
								(US, Canadian)			
							1-216-082-00	METAL GLAZE	24k	5%	1/10W
								(AEP, E)			

Page	Ref. No.	Incorrect					Correct				
		Part No.	Description				Part No.	Description			
46	R549	1-216-057-00	METAL CHIP	2.2k	5%	1/10W	1-216-051-00	METAL CHIP	1.2k	5%	1/10W
	R550	1-216-057-00	METAL CHIP	2.2k	5%	1/10W	1-216-051-00	METAL CHIP	1.2k	5%	1/10W
	R553	1-216-057-00	METAL CHIP	2.2k	5%	1/10W	1-216-051-00	METAL CHIP	1.2k	5%	1/10W
	R554	1-216-057-00	METAL CHIP	2.2k	5%	1/10W		————			
	R562	1-216-845-11	METAL CHIP	100k	5%	1/16W	1-216-864-11	METAL CHIP (US, Canadian)	0	5%	1/16W
	R563	1-216-845-11	METAL CHIP	100k	5%	1/16W	1-216-864-11	METAL CHIP	0	5%	1/16W
	R583	1-216-849-11	METAL CHIP	220k	5%	1/16W	1-216-845-11	METAL CHIP	100k	5%	1/16W
	R599	1-218-292-11	METAL GLAZE	20k	5%	1/16W	1-216-080-00	METAL CHIP	20k	5%	1/10W
	R608	1-216-041-00	METAL CHIP	470	5%	1/10W	1-216-043-00	METAL CHIP (US, Canadian)	560	5%	1/10W
							1-216-057-00	METAL CHIP (AEP, E)	2.2k	5%	1/10W
	R632		————				1-216-049-00	METAL CHIP	1k	5%	1/10W

1-2. CORRECTION OF THE DISPLAY BOARD

Correct your service manual as shown below.

: **Corrected portion.**

<table>
<tr><th>Page</th><th>INCORRECT</th><th>CORRECT</th></tr>
<tr><td>32</td><td>Location: A-1 to D-4
 
</td><td>Location: A-1 to D-4
 
</td></tr>
<tr><td>36</td><td>Location: I-5 to J-7
 
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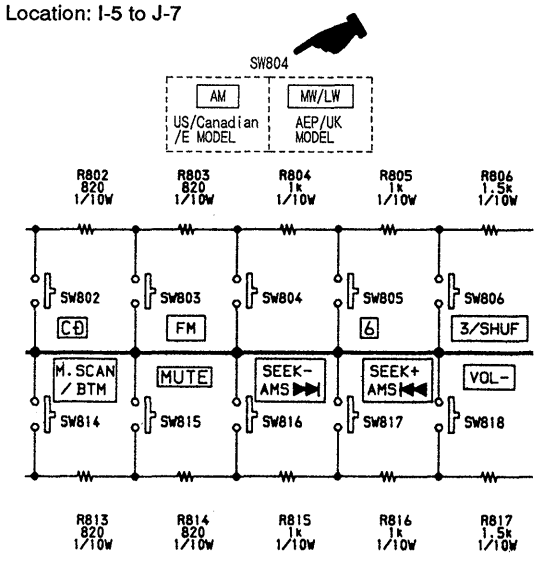
 
</td></tr>
</table>

1-3. PRINTED WIRING BOARDS – MAIN Section –

- **Delete pages 27 to 30 which is discribed the printed wiring boards of main section due to many mistakes. See this new informations for repair activity.**

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D2	D-11	IC502	E-7
D101	C-14	IC503	C-9
D201	C-14	IC552	E-3
D500	G-15	IC603	D-2
D501	E-9	IC701	B-13
D505	C-11		
D506	C-11	Q100	C-14
D507	F-10	Q101	C-3
D508	F-10	Q102	C-3
D509	D-7	Q200	C-14
D512	D-10	Q201	C-2
D513	F-7	Q202	C-2
D514	E-7	Q301	B-2
D515	C-11	Q501	B-6
D516	C-10	Q502	B-2
D518	C-10	Q504	D-6
D521	F-6	Q508	E-9
D523	B-14	Q511	F-9
D526	G-9	Q513	E-6
D529	G-9	Q514	E-7
D531	F-10	Q515	E-7
D532	F-10	Q517	E-9
D533	F-10	Q519	D-2
D550	E-13	Q520	B-14
D699	C-3	Q521	D-14
D731	C-11	Q522	E-6
		Q523	F-11
IC301	G-6	Q524	B-7
IC302	D-5	Q550	E-14
IC304	G-5	Q601	E-2
IC305	G-5	Q605	F-15
IC306	G-2	Q701	B-7
IC307	D-2	Q702	C-7
IC501	F-5		

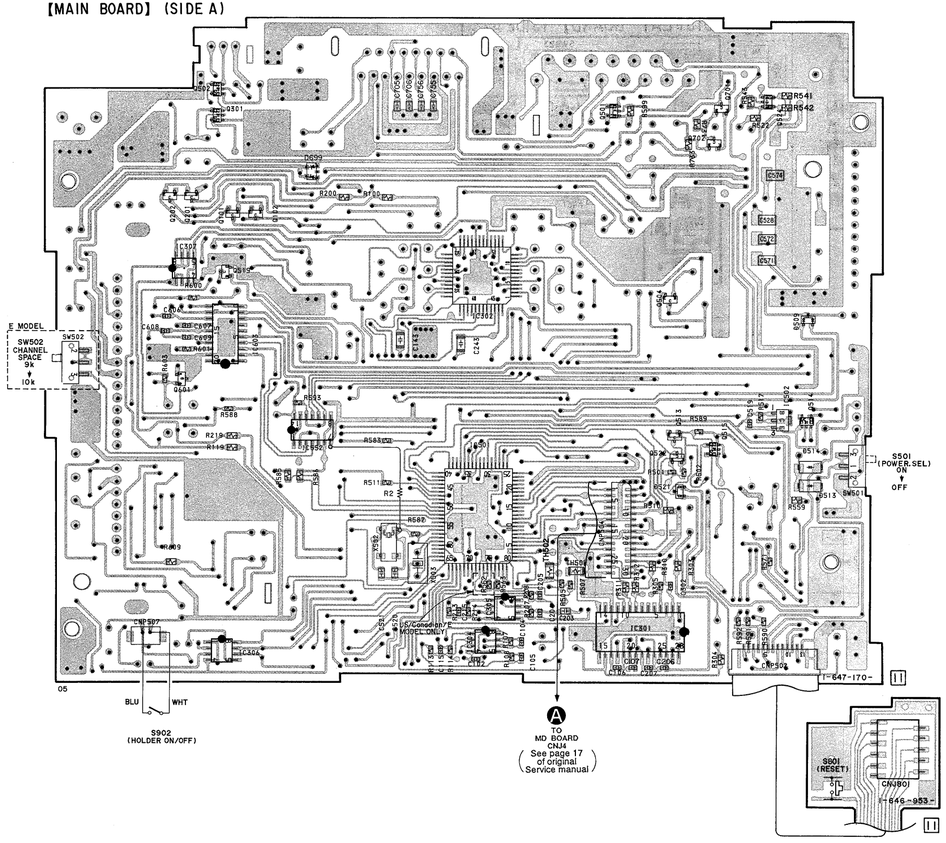
Note:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

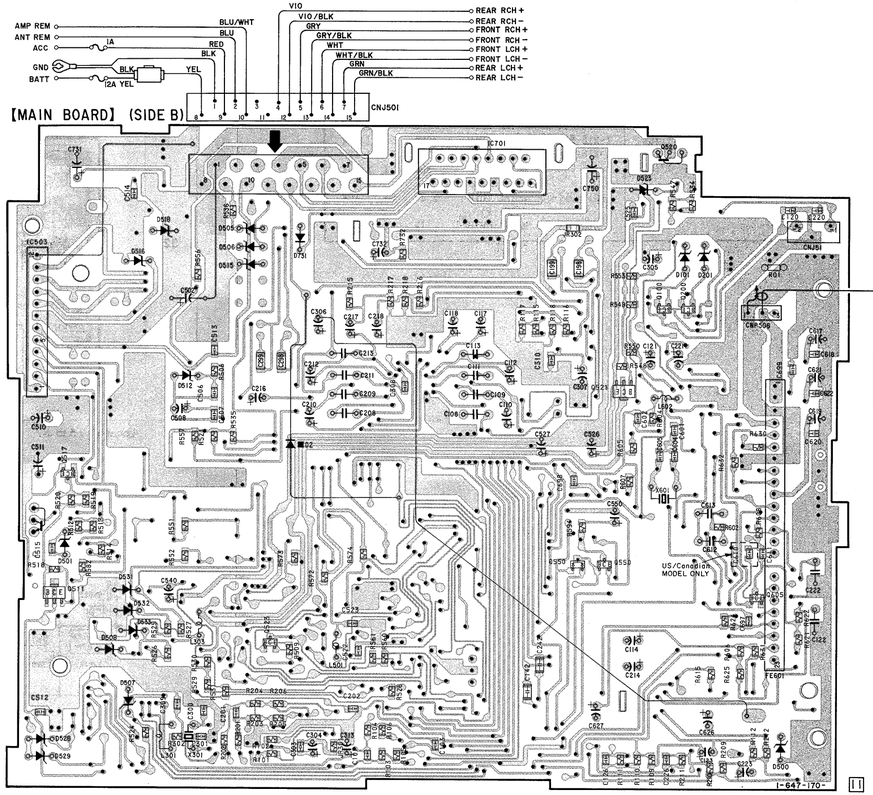
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

【MAIN BOARD】 (SIDE A)

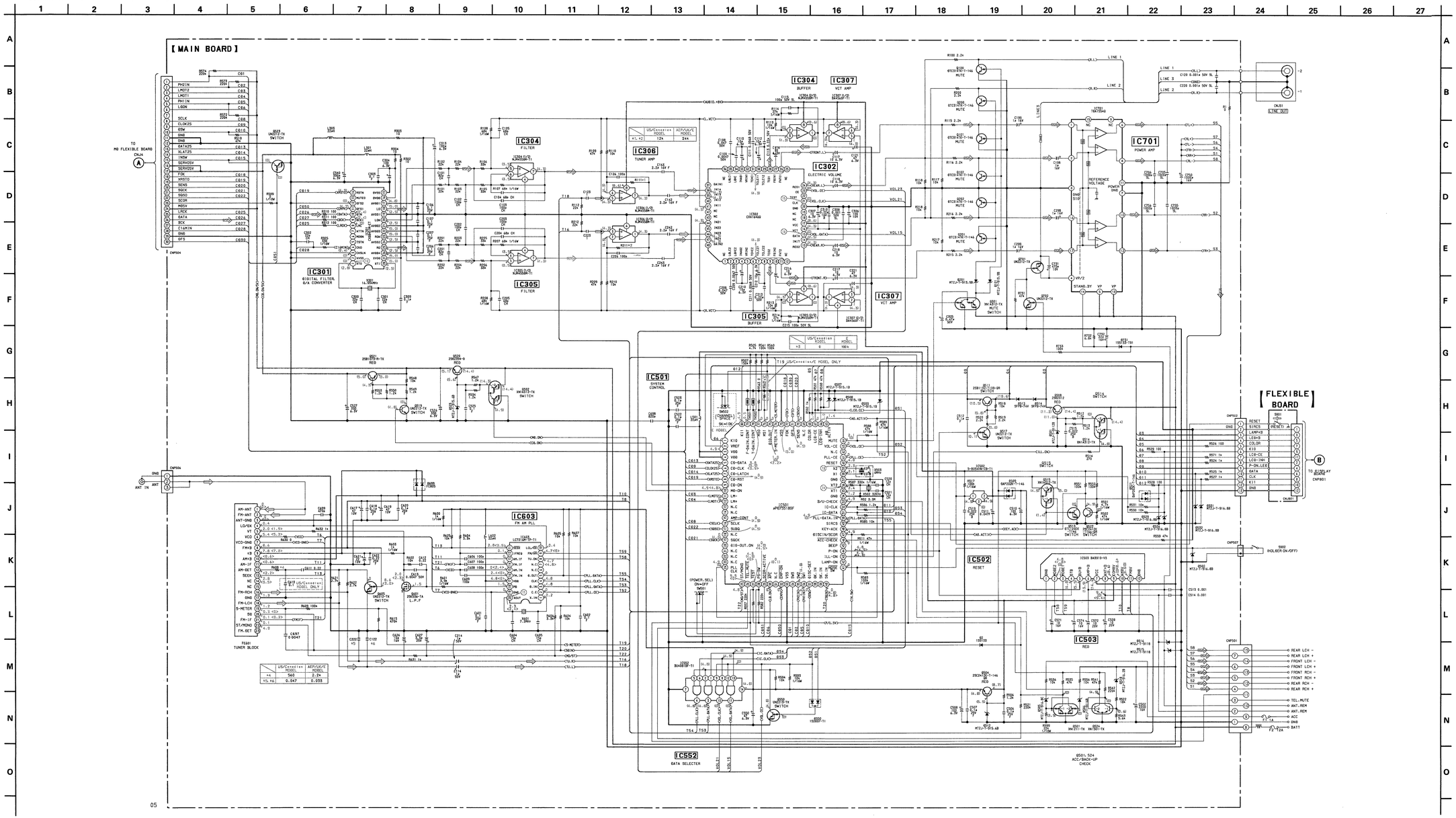


【MAIN BOARD】 (SIDE B)



1-4. SCHEMATIC DIAGRAM – MAIN Section –

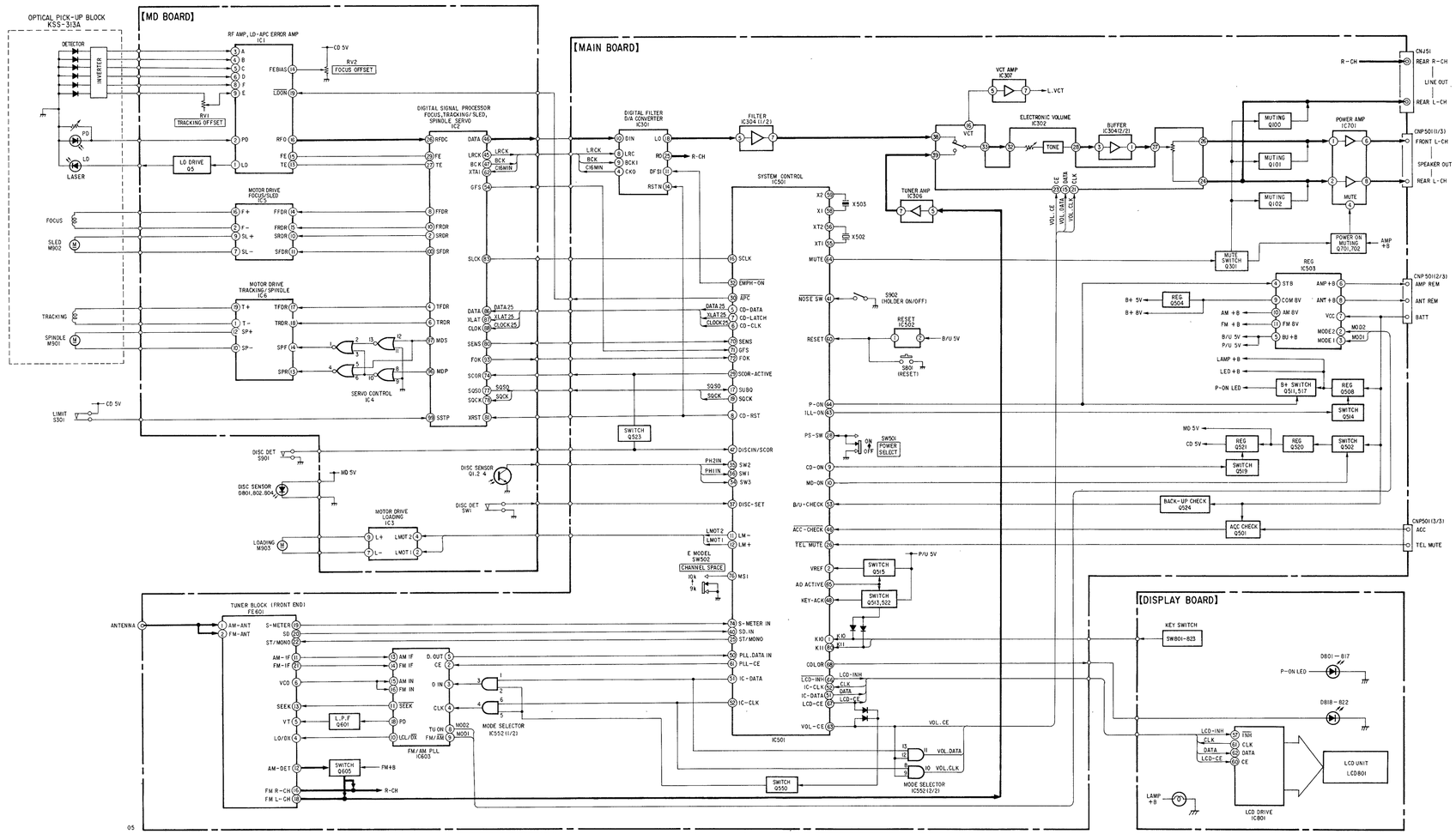
- **Delete pages 23 to 26 which is discribed the schematic diagram of main section due to many mistakes. See this new informations for repair activity.**



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ⏚ : B + Line.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD
  < > : AM
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ⇨ : CD

SECTION 2
BLOCK DIAGRAM



SECTION 3
IC PIN DESCRIPTION

• IC501 System Control (μPD75518GF-089-3B9)

Pin No.	Pin Name	I / O	Description
1	KI0	I	Key input pin. (A/D conversion input.)
2	VREF	I	Reference voltage input pin of A/D conversion pins.
3	VDD	I	Power supply input. (5V)
4	VDD	I	
5	CD DATA	O	SERIAL DATA output pin for the CD servo IC.
6	CD CLK	O	SERIAL CLOCK output pin for the CD servo IC.
7	CD LATCH	O	SERIAL DATA LATCH output pin for the CD servo IC.
8	CD RST	O	CD servo IC resetting output pin.
9	CD ON	O	Power supply ON/OFF control output pin. (CD servo IC)
10	MD ON	O	Power supply ON/OFF control output pin. (Mechanism deck section)
11	LM −	O	Loading motor control output pins.
12	LM +		

	LM −	LM +
FWD (Loading)	L	H
REV (Eject)	H	L

13	N.C	−	Not used.
14	N.C	−	
15	AMP-CONT	O	Not used.
16	SCLK	O	SERIAL CLOCK output pin.
17	SUBQ	I	Q DATA input pin.
18	N.C	−	Not used.
19	SQCK	O	CLOCK output pin for reading the Q DATA.
20	DIG OUT ON	−	Not used.
21	N.C	−	Not used.
22	N.C	−	
23	N.C	−	
24	PLL CLK	O	SERIAL CLOCK output pin for the LCD driver.
25	ST/MONO	O	Output pin for switching control STEREO/MONO.
26	$\overline{\text{TEL MUTE}}$	I	Telephone MUTE input pin.
27	$\overline{\text{TEST}}$	I	When dropped to "L", TEST MODE will be set.
28	PS SW	I	Power select SW input pin.
29	SCOR ACT	O	Activate for SCOR line.
30	$\overline{\text{APC}}$	O	CD pick-up laser power ON/OFF control output.
31	N.C	−	Not used.
32	$\overline{\text{EMP ON}}$	O	Outputs "L" when a DISC which has been pre-emphasized is played back.
33	VSS	−	Connected GND.
34	SW3	I	Not used.
35	SW2	I	Mechanism deck sensor (loading/eject) input pin.
36	SW1	I	Mechanism deck sensor (loading/eject) input pin.
37	DISC SET	I	Mechanism deck sensor input pin. Detects the completion of the DISC chucking operation.
38	DK IN	I	Not used.
39	SK IN	I	

Pin No.	Pin Name	I / O	Description
40	SD IN	I	SD input pin.
41	$\overline{\text{NOSE SW}}$	I	Front panel Ass'y removal and attaching detection.
42	LAMP ON	O	Not used.
43	ILL ON	O	RESET output pin for UNILINK system. Illumination control output pin.
44	P ON	O	ON/OFF control pin of the power supply.
45	BEEP	O	Not used.
46	$\overline{\text{ACC CHECK}}$	I	ACC line ON/OFF detection.
47	DISC IN /SCOR	I	CD PLAY : SCOR input pin. Others : MD roller open/close detect input.
48	$\overline{\text{KEY ACK}}$	I	Front panel key detecton.
49	SIRCS	I	SIRCS signal input pin.
50	PLL DATA IN	I	SERIAL DATA input pin.
51	IC DATA	O	SERIAL DATA output pin for the LCD driver.
52	IC CLK	O	SERIAL CLOCK output pin for the LCD driver.
53	BU CHECK	I	BATT line ON/OFF detection.
54	Vss	–	Connected to GND.
55	XT1	–	The SYSTEM CLOCK (32.768kHz) for internal clock.
56	XT2	–	
57	Vss	–	Input pin for system reset.
58	X1	–	The SYSTEM CLOCK (6.0MHz) for system control IC.
59	X2	–	
60	RESET	I	Input pin for system reset.
61	PLL CE	O	CLOCK enable output pin for the PLL IC.
62	N.C	–	Not used.
63	VOL CE	O	CE output pin to the electronic VOL IC.
64	MUTE	O	Audio MUTE output pin.
65	AD ACTIVE	O	VREF control pin of A/D conversion pins.
66	$\overline{\text{LCD INH}}$	O	Pin which outputs INH to the LCD driver IC.
67	LCD CE	O	Pin which outputs CE to the LCD driver IC.
68	COLOR	O	Output pin for switching lighting colors. (AMBER/GREEN)
69	N.C	–	Not used.
70	SENS	I	SENS input pin from CD servo IC.
71	GFS	I	GFS input pin from CD servo IC.
72	FOK	I	FOK input pin fromt CD servo IC.
73	Vss	–	Connected to GND.
74	S-METER IN	I	S meter voltage detection pin.
75	DIG OUT	I	Connected to GND.
76	MS1	I	MODE select input pin.
77	MS0	I	
78	T GAIN CONT	I	Temperature detection (High)
79	F GAIN CONT	I	Temperature detection (Low)
80	KI1	I	Key input pin (A/D conversion input)

SECTION 4
TEST MODE

Setting:

Method 1

Press keys in order of ④→⑤→①for 2sec. under OFF condition.

Method 2

Pin㉗of IC501 (SYSTEM CONTROL) →Connected to GND →[RESET] button (S801)

Note: While the TEST MODE is set, the following will be displayed on the LCD.
Bit display "SHUF".

Releasing:

Press [OFF] key, or press [RESET] button (Open pin㉗ of IC501).

LCD display test

All segments of the display are lit up at the beginning of test mode.

Electronic volume test

[+] key :

→ −20dB → −10dB → 0dB →

[−] key : normal operation

[SEL] key :

→ BASS max → BASS min → TREBLE max →
← All center ← LOUD on ← TREBLE min ←

[MUTE] key :

→ BALANCE R → BALANCE L → FADER rear →
← All center ← FADAR front ←

CD SECTION

Audio Measurement Mode

When CD is played, the AUDIO MEASUREMENT MODE turns on.

When "YEDS-18" is played in the measuring mode, only the following Track No. will be played. (BANK function)

Each time the [4] key is pressed, the measuring mode turns on/off cyclically.

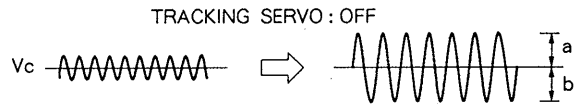
Note: AUDIO MEASUREMENT MODE PLAY Track No.
No. 2, 3, 6, 7, 8, 10, 12, 13, 17
(These have been set assuming that YEDS-18 will be used.)
While the audio measurement mode is set, the following will be displayed on the LCD.
Bit display "D. SCAN"

When YEDS-18 is used, the recording signals of the above TRKs are as follows.

TNO	CONTENTS	EMPHASIS	PURROSE
2	1kHz Sine Wave 0dB L&R	OFF	Reference
3	20kHz Sine Wave 0dB L&R	OFF	Frequency
6	20kHz Sine Wave 0dB L&R	OFF	Modulation Noise
7	Infinity Zero −∞dB L&R	OFF	S/N
8	1kHz Sine Wave 0dB L	OFF	Channel Separation
10	1kHz Sine Wave 0dB R		
12	5kHz Sine Wave − 4.53dB L&R	ON	De emphasis
13	16kHz Sine Wave − 9.04dB L&R		
17	1kHz Sine Wave − 60dB L&R	OFF	Dynamic Range

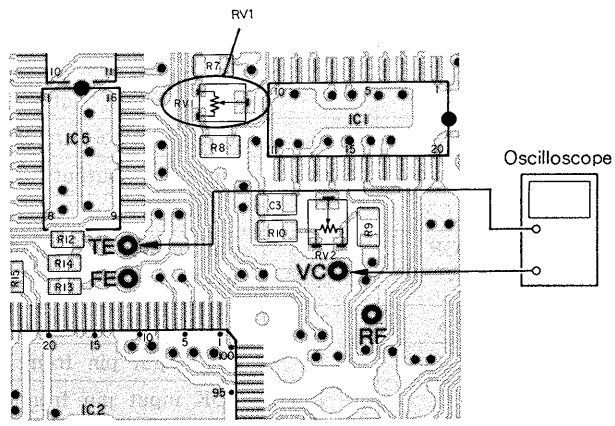
Adjusting and Checking Functions

a) TRACKING OFFSET adjustment
Each time the [INTRO] key is pressed while the CD is played, the TRACKING SERVO turns on/off. The bit display "INTRO" on the LCD will be lit while the TRACKING SERVO is off.



Adjustment Location and Measurement point:

【MD BOARD】(SIDE B)



Procedure:

Adjust RV1 so that the peak values of waveforms a and b become equal.

b) Focus search retry mode
Each time the [REP] key is pressed while the CD is played, the FOCUS SEARCH RETRY MODE turns on/off.
When the FOCUS does not turn on in the FOCUS SEARCH RETRY MODE, the FOCUS search is repeated. Once the FOCUS turns on, the unit sets into the PLAY condition.
During the FOCUS SEARCH RETRY MODE, the "REP" bit display on the LCD will be lit.

Note: This mode is for checking the unit when FOCUS cannot be set.

CD Error Display

During CD PLAY in the TEST MODE, the following ERROR displays will be shown when CD errors occur.
"E- n1 n2"
n1 to n2 are determined by ERROR symptoms as shown below.

n1	n2
1 : SERVO ERROR	1 : FOCUS ERROR 2 : GFS ERROR 3 : SLED MAX TIME OVER 4 : SLED OVERRUN 5 : TOC READ ERROR
3 : LOADING /EJECT ERROR	1 : MAX TIME OVER (When sensor is passed during loading.) 2 : Loading of only 8cm CD, adaptor, etc. 3 : MAX TIME OVER (Until chucking ends during loading.) 4 : MAX TIME OVER (Until EJECT ends during ejecting.)
4 : TRACK JUMP	1 : FOCUS DOWN 2 : TRACK JUMP 3 : HANG UP
D : TEMP (HOT)	0
F : MD GIVE UP	7 : EJT

TUNER SECTION

When the tuner is turned on in the TEST MODE, all bands will first be set to f_{center}.

SEEK STOP TEST Function

a) When the [SEEK +] key is pressed, the unit is set to a frequency − 10 steps from the f_{center} and automatically seeks up to the f_{center}.
- If the unit seek stops at the f_{center} :
  The unit sets into the f_{center} reception state. Preset No. "1" will be displayed.
- If the unit seeks up to the f_{center} and cannot seek stop :
  It returns to the − 10 step frequency and seeks up again.
- If the unit seek stops before the f_{center} :
  The unit receives that frequency. Preset No. "3" will be displayed.

b) When the [SEEK −] key is pressed, the unit is set to a frequency + 10 steps from the f_{center} and automatically seeks down to the f_{center}.
Hereafter the same as the [SEEK +] key.

c) When the [MANU +] key is pressed, the unit is set to a frequency − 10 steps from the f_{max} and seeks up.
Hereafter the same as a) except that f_{center} is replaced by f_{max}.

d) Press the [MANU −] key to carry out normal MANUAL search down operations.

BAND SELECT

During TEST MODE, only the single band can be selected.

AGC CUT Function

In the AM ON condition, this function activates the $\overline{SEEK}$ port (IC603) and cuts AGC.
In the AGC CUT condition, the following displays on the LCD will light up.
Bit display "CHANGER"

When the [M.SCAN/BTM] key is pressed for more than two seconds, AGC CUT turns on/off cyclically.
(The BTM function is unavailable.)

Note: Set the AGC CUT condition when adjusting the AM SEEK STOP sensitivity.
If the band changes from FM to AM, be sure to turn on the AGC CUT.

SD Signal Display (For adjusting SEEK STOP LEVEL)

If the SD signal becomes high while a certain frequency is being received, after BAND displays such as "FM", "AM", etc. are shown, the following displays will light up.

"III" display

When the SD signal is low, nothing will be shown after the BAND is displayed.

BTM Signal Level Display Function (For adjusting FM S meter)

When the [M.SCAN] key is pressed, the level of the S meter voltage of the A/D conversion input will be displayed. (Displayed at frequency display)

* Input FM f_{center} 35 dBμ at SG, and adjust the BTM signal level displayed to 0.6.

Press MANU +/−, etc. to return the frequency display. M.SCAN operations are unavailable.

DESTINATION	BAND	fmin	fcenter	fmax	step (SEEK)	step (MANUAL)
US, CND	FM	87.5MHz	97.9MHz	107.9MHz	200kHz	200kHz
	AM	530kHz	1000kHz	1710kHz	10kHz	10kHz
E (9kHz step)	FM	87.50MHz	98.00MHz	108.00MHz	50kHz	50kHz
	AM	531kHz	999kHz	1602kHz	9kHz	9kHz
E (10kHz step)	FM	87.50MHz	98.00MHz	108.00MHz	50kHz	50kHz
	AM	530kHz	1000kHz	1620kHz	10kHz	10kHz
AEP, UK, G	FM	87.5MHz	98.0MHz	108.0MHz	50kHz	50kHz
	MW	531kHz	999kHz	1602kHz	9kHz	9kHz
	LW	153kHz	216kHz	281kHz	9kHz	1kHz

Abbreviation CND : Canadian
G : Germany

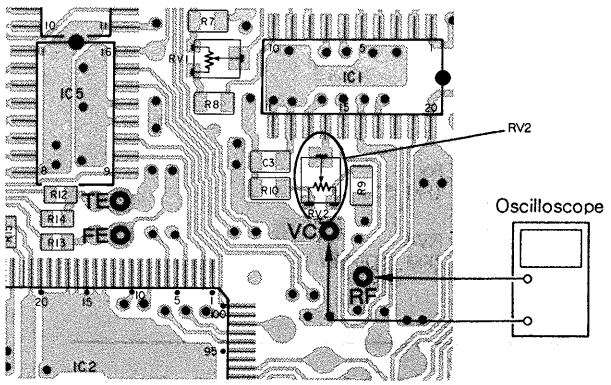
SECTION 5
ELECTRICAL ADJUSTMENTS

CD SECTION

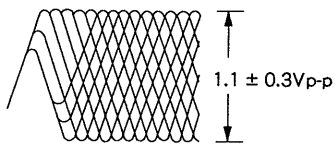
Focus Offset Adjustment

Adjustment Location and Measurement point:

【MD BOARD】 (SIDE B)



Volt/div : 200mV
Time/div : 0.5 µsec



Procedure:

1. Connect the oscilloscope to test point [RF] on the MD board.
2. Load a disc and set mode to PLAY.
3. Adjust RV2 so that the waveform on the oscilloscope (eye pattern) is maximum with good shape. "Well-shaped eye pattern"means that the mark "◇" is clearly distinguished at the center of the waveform.

Tracking Offset Adjustment

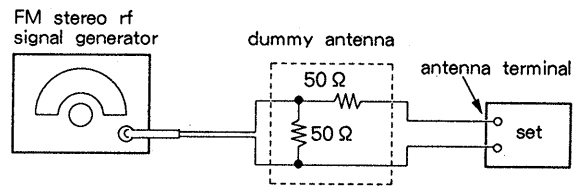
Refer to the "TEST MODE CD SECTION".

TUNER SECTION

FM Seek Stop Level Adjustment (FM SD Adjustment)

Setting:

Band : FM
Frequency : 97.9MHz (US, Canadian Model)
98MHz (AEP, UK, E Model)

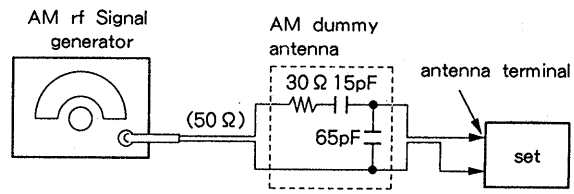


Carrier frequency : 97.9MHz (US, Canadian Model)
98MHz (AEP, UK, E Model)
Modulation : 1kHz, 75kHz
Output level : 22dB (12.6 µV)

AM Seek Stop Level Adjustment (AM SD Adjustment)

Setting:

Band : AM
Frequency : 1000kHz (US, Canadian Model)
999kz (AEP, UK, E Model)



Carrier frequency : 1000kHz (US, Canadian Model)
999kHz (AEP, UK, E Model)
Modulation : 400Hz, 30 %
Output level : 32dB (40 µV)

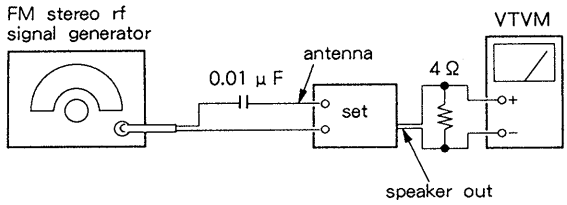
Procedure:

1. Set the "SD Signal Display" MODE of the TEST MODE.
2. Adjust RV3 (FM), RV1 (AM) of the TUNER UNIT, and erase the SD display "III" once.
3. Adjust RV3 (FM), RV1 (AM) so that a SD display lights up again.
4. Check with the "SEEK STOP TEST" function of the TEST MODE.

FM Stereo Separation Adjustment

Setting:

Band : FM Stereo
Frequency : 97.9MHz (US, Canadian Model)
98MHz (AEP, UK, E Model)



Carrier frequency : 97.9MHz (US, Canadian Model)
98MHz (AEP, UK, E Model)
Modulation : Main channel : 1kHz, 33.75kHz deviation (45 %)
Pilot signal : 18kHz, 7.5kHz deviation (10 %)
Subchannel : 1kHz, 33.75kHz deviation (45 %)
Output level : 1mV (More than 35dB)

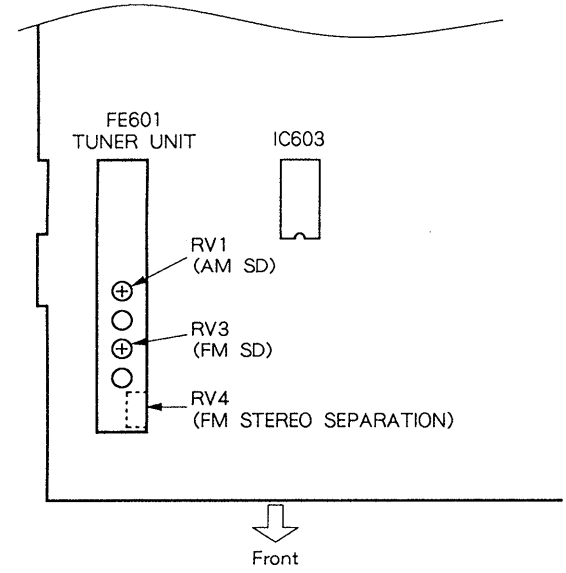
Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	ⓐ
R-CH	L-CH	ⓑ Adjust RV4 for minimum reading.
R-CH	R-CH	ⓒ
L-CH	R-CH	ⓓ Adjust RV4 for minimum reading.

Note: The separation values in the two channels should be identical.
ⓐ – ⓑ = ⓒ – ⓓ

Adjustment Location:

【MAIN BOARD】 (SIDE A)



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CDX-5060

SONY
SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model
UK Model

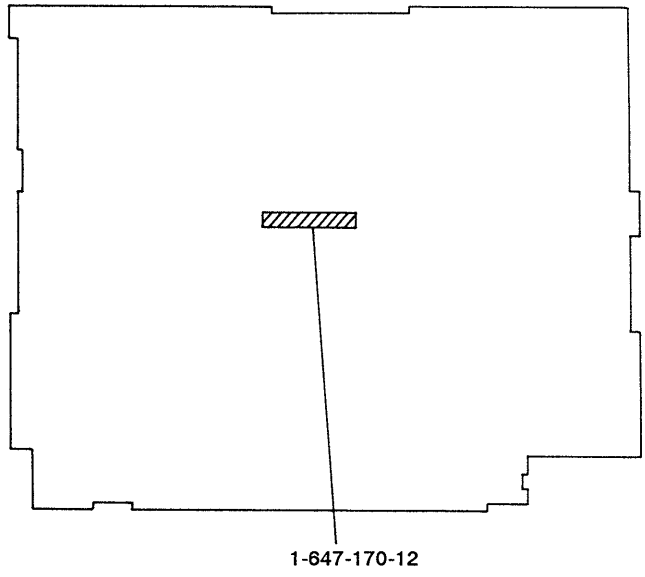
SUPPLEMENT-2

File this supplement with the service manual.

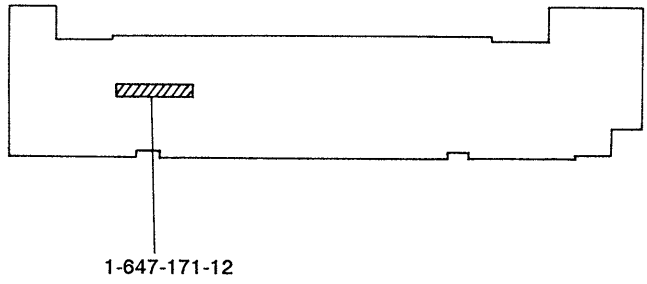
Subject:
Printed Circuit Boards
Modificaion

The printed circuit boards have been modified in the middle of production.
This manual contains the diagrams and electrical parts list of the modified main board and the modified portion of the display board.

MAIN BOARD (COMPONENT SIDE)



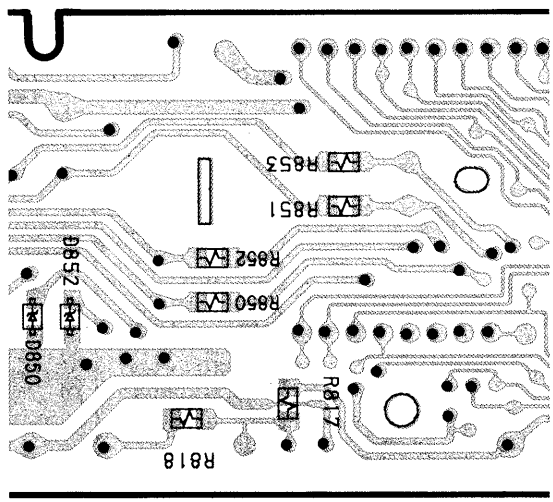
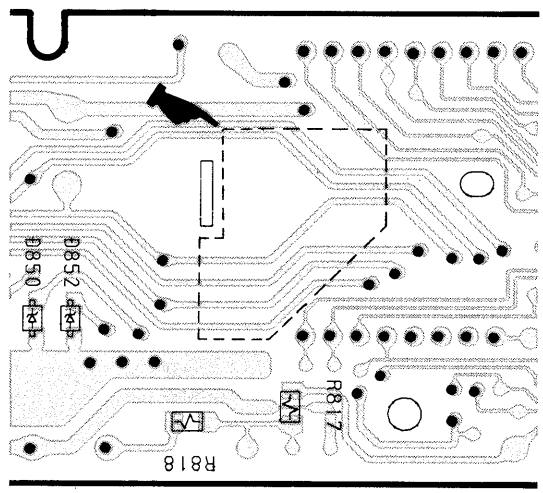
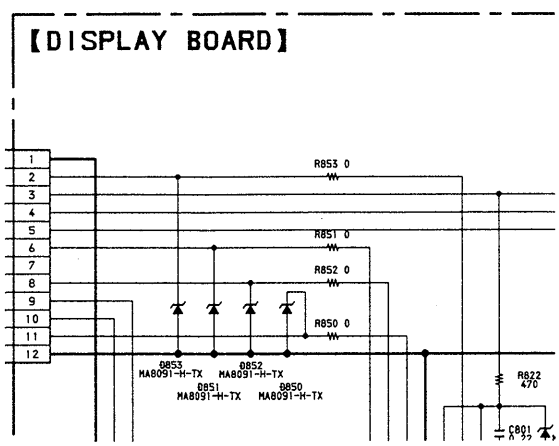
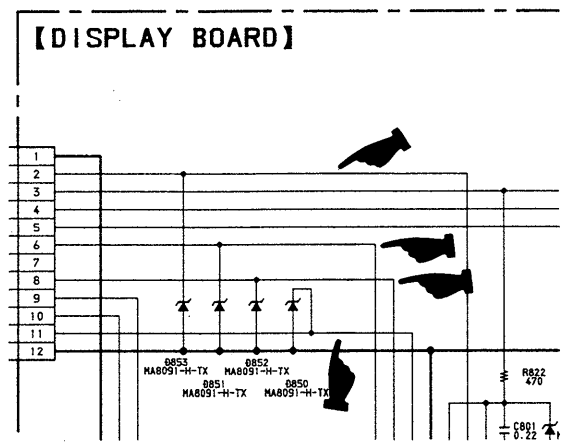
DISPLAY BOARD (CONDUCTOR SIDE)



1. DISPLAY BOARD

1-1. DIAGRAMS

: Changed Portion

Page	Former	New
33	Location: F-7 to I-9 	Location: F-7 to I-9 
36	Location: A-4 to C-6 	Location: A-4 to C-6 

1-2. ELECTRICAL PARTS LIST

Page	Former	New
43	Ref. No. / Part No. / Description / Remark R850 1-216-295-00 METAL CHIP 0 5% 1/10W R851 1-216-295-00 METAL CHIP 0 5% 1/10W R852 1-216-295-00 METAL CHIP 0 5% 1/10W R853 1-216-295-00 METAL CHIP 0 5% 1/10W	Not used

2. MAIN BOARD

2-1. PRINTED WIRING BOARDS

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D101	C-14	IC502	E-7
D201	C-15	IC503	C-9
D500	G-15	IC552	E-3
D501	E-9	IC603	D-3
D505	C-11	IC701	B-13
D506	C-11		
D507	G-10	Q100	C-14
D508	F-10	Q101	C-3
D509	D-7	Q102	C-3
D512	D-11	Q200	C-4
D513	F-7	Q201	C-2
D514	E-7	Q202	C-2
D515	C-11	Q301	B-2
D516	B-10	Q501	C-6
D518	D-10	Q502	B-2
D521	F-6	Q504	D-6
D523	B-14	Q508	E-9
D528	G-9	Q511	F-9
D529	G-9	Q513	E-6
D531	F-10	Q514	E-7
D532	F-10	Q515	E-7
D533	F-10	Q517	E-9
D550	E-13	Q519	D-3
D599	C-3	Q520	B-14
D731	C-11	Q521	D-14
		Q522	E-6
IC301	G-6	Q523	F-11
IC302	D-5	Q524	D-7
IC304	G-5	Q550	D-13
IC305	G-5	Q601	E-2
IC306	G-3	Q605	F-15
IC307	D-2	Q701	C-7
IC501	E-5	Q702	C-6

Note:

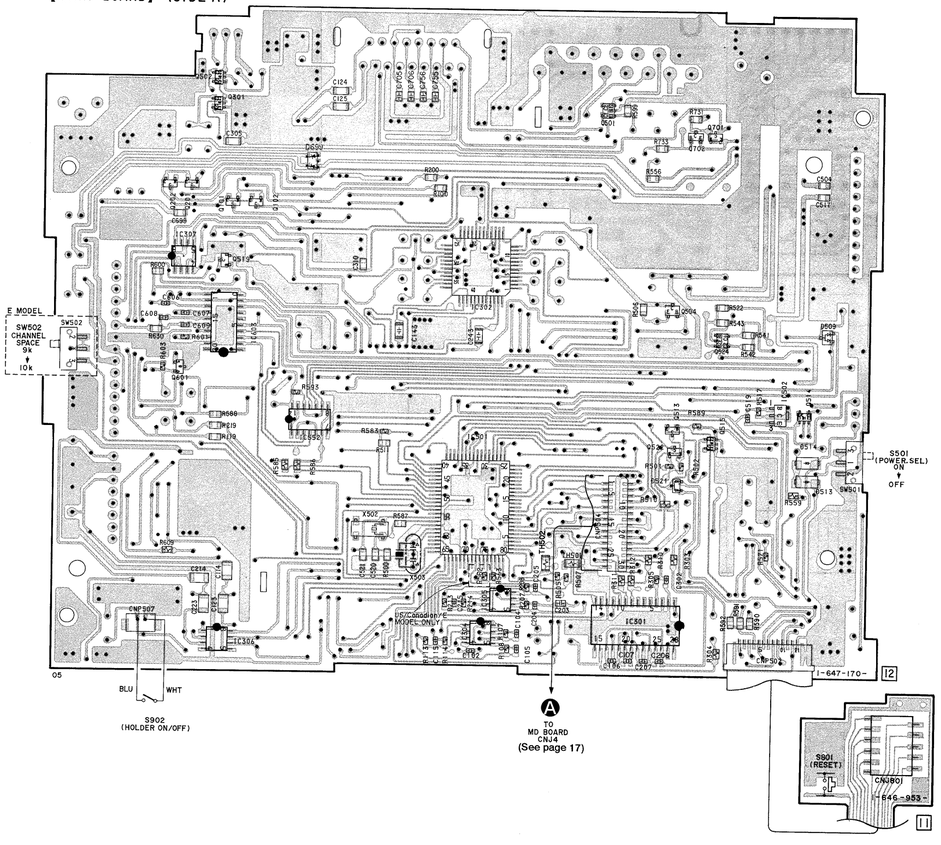
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

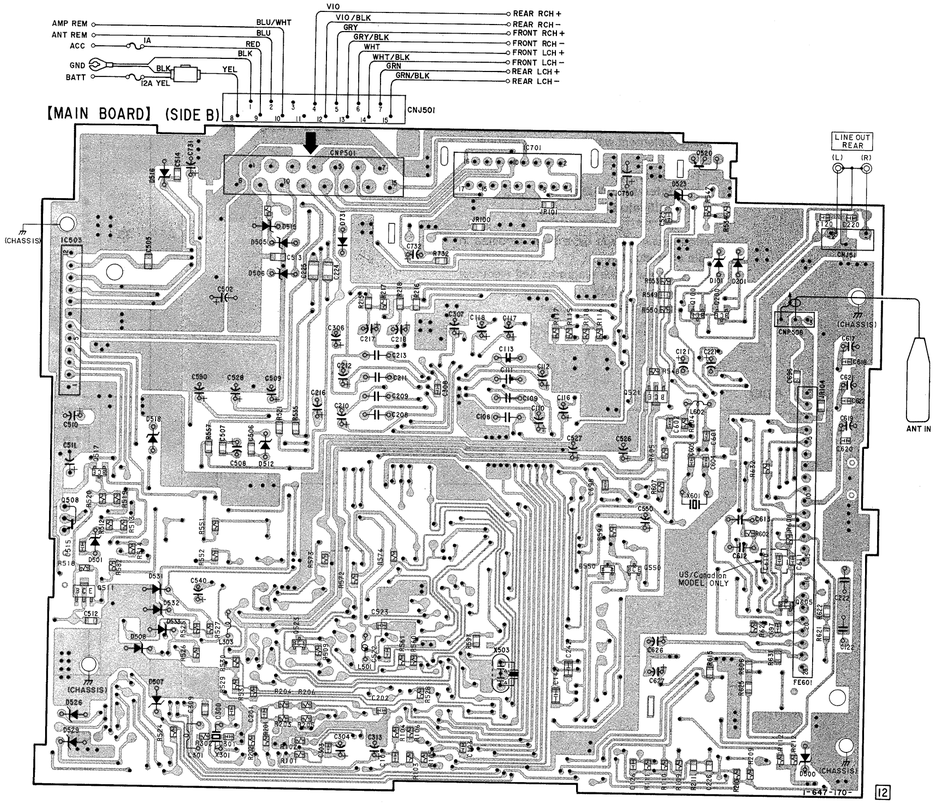
Caution:

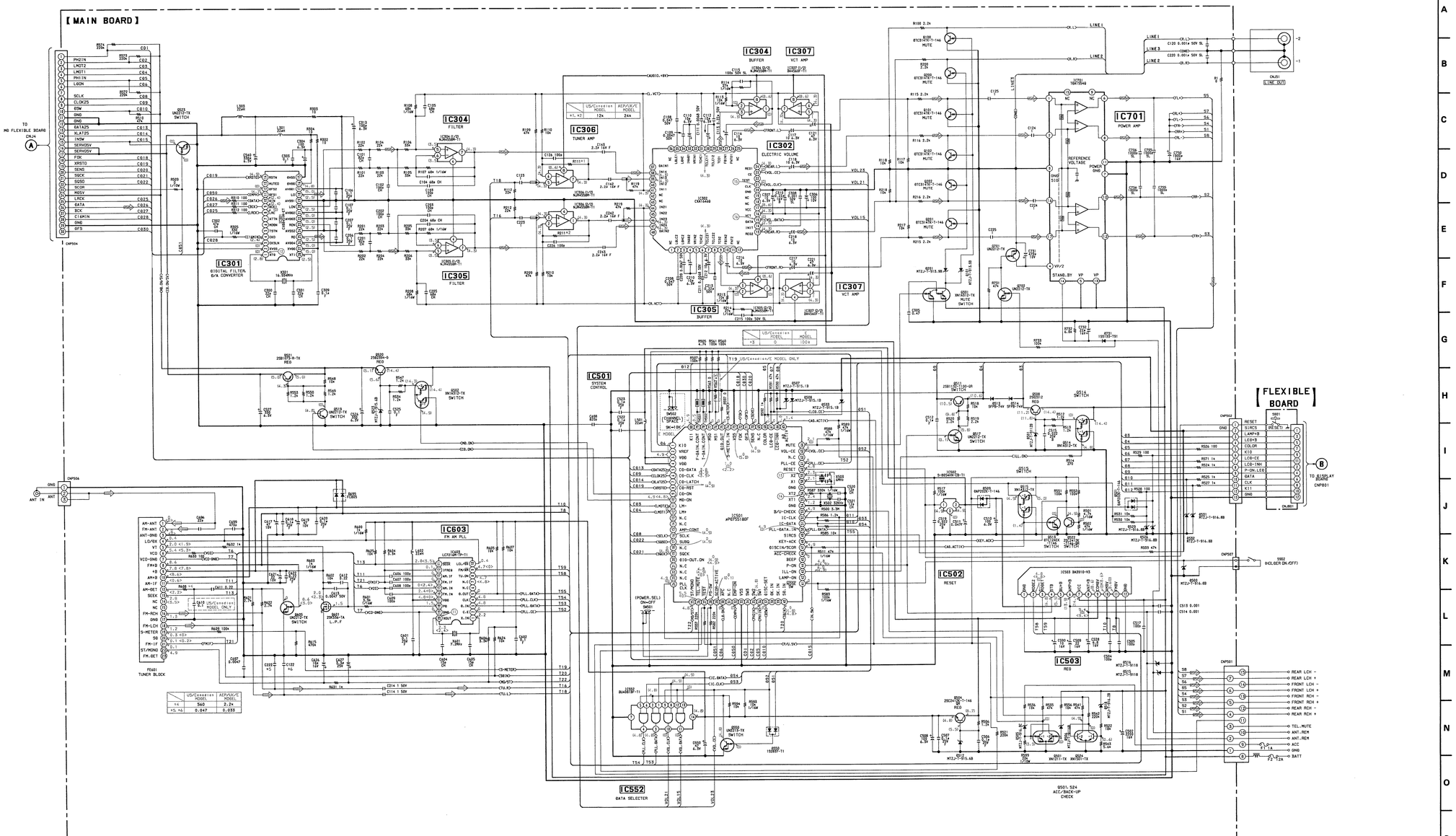
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

【MAIN BOARD】 (SIDE A)



【MAIN BOARD】 (SIDE B)




【MAIN BOARD】
【FLEXIBLE BOARD】
IC301
DIGITAL FILTER, D/A CONVERTER
IC304
FILTER
IC305
FILTER
IC306
TUNER AMP
IC302
ELECTRIC VOLUME
IC304
BUFFER
IC307
VCT AMP
IC305
BUFFER
IC307
VCT AMP
IC701
POWER AMP
IC501
SYSTEM CONTROL
IC603
FM AM PLL
IC502
RESET
IC503
REG
IC552
DATA SELECTER
TO MB FLEXIBLE BOARD CN-24
TO B/DISPLAY BOARD CNP001
CNP504
CNP502
CNP501
CNP507
CNJ51
LINE OUT
FE601
TUNER BLOCK
(POWER, SEL) ON-OFF SW601
S902 (HOLDER ON/OFF)
S901, S24 ACC/BACK-UP CHECK
REAR LCH -
REAR LCH +
FRONT LCH -
FRONT LCH +
FRONT RCH -
FRONT RCH +
REAR RCH -
REAR RCH +
TEL. MUTE
ANT. REM
ANT. REM
ACC
GND
BATT
Note:
• All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and ¼ W or less unless otherwise specified.
• ═══ : B + Line.
• Power voltage is dc 14.4 V and fed with regulated dc power supply from ACC and BATT cords.
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
( ) : CD
< > : AM
• Circled numbers refer to waveforms.
• Signal path.
▭▷ : FM
▭▷ : CD

2-3. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-3295-455-A	MAIN BOARD, COMPLETE (AEP, UK)			
		**********			
	A-3295-457-A	MAIN BOARD, COMPLETE (E)			
		**********			
	A-3295-459-A	MAIN BOARD, COMPLETE (US, Canadian)			
		**********			
	7-682-547-04	SCREW +PTT 3X6 (S)			
	7-621-770-67	SCREW +PTT 2.6X6 (S)			
		< CAPACITOR >			
C101	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C102	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C103	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C104	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C105	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C108	1-136-161-00	FILM	0.047uF	5%	50V
C109	1-130-479-00	MYLAR	0.0047uF	5%	50V
C110	1-126-157-11	ELECT	10uF	20%	16V
C111	1-130-481-00	MYLAR	0.0068uF	5%	50V
C112	1-126-157-11	ELECT	10uF	20%	16V
C113	1-136-169-00	FILM	0.22uF	5%	50V
C114	1-162-638-11	CERAMIC CHIP	1uF		16V
C115	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C116	1-126-157-11	ELECT	10uF	20%	16V
C117	1-126-157-11	ELECT	10uF	20%	16V
C118	1-126-157-11	ELECT	10uF	20%	16V
C120	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C121	1-126-154-11	ELECT	47uF	20%	6.3V
C122	1-136-159-00	FILM (AEP, UK, E)	0.033uF	5%	50V
C122	1-136-161-00	FILM (US, Canadian)	0.047uF	5%	50V
C123	1-162-638-11	CERAMIC CHIP	1uF		16V
C124	1-162-638-11	CERAMIC CHIP	1uF		16V
C125	1-162-638-11	CERAMIC CHIP	1uF		16V
C126	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C142	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C143	1-164-337-11	CERAMIC CHIP	2.2uF		16V

Ref. No.	Part No.	Description			Remark
C201	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C202	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C203	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C204	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C205	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C206	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C207	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C208	1-136-161-00	FILM	0.047uF	5%	50V
C209	1-130-479-00	MYLAR	0.0047uF	5%	50V
C210	1-126-157-11	ELECT	10uF	20%	16V
C211	1-130-481-00	MYLAR	0.0068uF	5%	50V
C212	1-126-157-11	ELECT	10uF	20%	16V
C213	1-136-169-00	FILM	0.22uF	5%	50V
C214	1-162-638-11	CERAMIC CHIP	1uF		16V
C215	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C216	1-126-157-11	ELECT	10uF	20%	16V
C217	1-126-157-11	ELECT	10uF	20%	16V
C218	1-126-157-11	ELECT	10uF	20%	16V
C220	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C221	1-126-154-11	ELECT	47uF	20%	6.3V
C222	1-136-159-00	FILM (AEP, UK, E)	0.033uF	5%	50V
C222	1-136-161-00	FILM (US, Canadian)	0.047uF	5%	50V
C223	1-162-638-11	CERAMIC CHIP	1uF		16V
C224	1-162-638-11	CERAMIC CHIP	1uF		16V
C225	1-162-638-11	CERAMIC CHIP	1uF		16V
C226	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C242	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C243	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C300	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C301	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C302	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C304	1-124-584-00	ELECT	100uF	20%	10V
C305	1-162-637-11	CERAMIC CHIP	0.47uF		16V
C306	1-124-584-00	ELECT	100uF	20%	10V
C307	1-126-157-11	ELECT	10uF	20%	16V
C308	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C309	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C310	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C313	1-124-584-00	ELECT	100uF	20%	10V
C502	1-126-768-11	ELECT	2200uF	20%	16V
C504	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C505	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C506	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C507	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C508	1-124-584-00	ELECT	100uF	20%	10V
C509	1-124-234-00	ELECT	22uF	20%	16V
C510	1-124-584-00	ELECT	100uF	20%	10V
C511	1-125-701-11	DOUBLE LAYER	0.047F		
C512	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C513	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C514	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C515	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C517	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C519	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C520	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C521	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C522	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C523	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C525	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C526	1-128-057-11	ELECT	330uF	20%	6.3V
C527	1-128-057-11	ELECT	330uF	20%	6.3V
C528	1-127-556-11	ELECT (SOLID)	6.8uF	20%	16V
C540	1-128-057-11	ELECT	330uF	20%	6.3V
C550	1-126-154-11	ELECT	47uF	20%	6.3V
C601	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C602	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C604	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C605	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C606	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C607	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C608	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C609	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C610	1-163-038-00	CERAMIC CHIP (US, Canadian)	0.1uF		25V
C611	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C612	1-136-169-00	FILM	0.22uF	5%	50V
C613	1-130-479-00	MYLAR	0.0047uF	5%	50V
C617	1-124-589-11	ELECT	47uF	20%	16V
C618	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C619	1-124-589-11	ELECT	47uF	20%	16V
C620	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C621	1-128-054-11	ELECT	22uF	20%	10V
C622	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C626	1-126-157-11	ELECT	10uF	20%	16V
C627	1-126-162-11	ELECT	3.3uF	20%	50V

Ref. No.	Part No.	Description			Remark
C696	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C697	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C698	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C699	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C705	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C706	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C731	1-126-925-11	ELECT	470uF	20%	10V
C732	1-124-234-00	ELECT	22uF	20%	16V
C750	1-126-952-11	ELECT	1000uF	20%	16V
C755	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C756	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V

< JACK >

CNJ51	1-750-087-11	JACK, PIN 2P (LINE OUT:REAR)	

< CONNECTOR >

* CNP501	1-750-064-11	PLUG, CONNECTOR 15P	
* CNP502	1-750-512-21	CONNECTOR, FPC 13P	
* CNP504	1-695-953-31	CONNECTOR, BOARD TO BOARD 30P	
* CNP506	1-750-241-21	PIN, CONNECTOR (PC BOARD) 3P	
* CNP507	1-695-320-21	PIN, CONNECTOR (1.5MM) (SMD) 2P	

< DIODE >

D101	8-719-982-08	DIODE	MTZJ-3.9B
D201	8-719-982-08	DIODE	MTZJ-3.9B
D500	8-719-921-59	DIODE	MTZJ-68B
D501	8-719-921-82	DIODE	MTZJ-12B
D505	8-719-921-60	DIODE	MTZJ-6.8C
D506	8-719-921-96	DIODE	MTZJ-16B
D507	8-719-921-47	DIODE	MTZJ-5.6B
D508	8-719-921-47	DIODE	MTZJ-5.6B
D509	8-719-914-44	DIODE	DAP202K
D512	8-719-921-47	DIODE	MTZJ-5.6B
D513	8-719-026-43	DIODE	SFPB-74V
D514	8-719-026-43	DIODE	SFPB-74V
D515	8-719-034-96	DIODE	MA4200-(QZ)
D516	8-719-034-96	DIODE	MA4200-(QZ)
D518	8-719-921-54	DIODE	MTZJ-6.2B
D521	8-719-914-44	DIODE	DAP202K
D523	8-719-921-47	DIODE	MTZJ-5.6B
D526	8-719-921-59	DIODE	MTZJ-6.8B
D529	8-719-921-59	DIODE	MTZJ-6.8B
D531	8-719-921-59	DIODE	MTZJ-6.8B
D532	8-719-921-59	DIODE	MTZJ-6.8B
D533	8-719-921-43	DIODE	MTZJ-5.1B
D550	8-719-400-18	DIODE	MA152WK
D699	8-719-981-59	DIODE	FC805-TL
D731	8-719-800-76	DIODE	1SS226

Ref. No.	Part No.	Description			Remark
		< IC >			
IC301	8-759-093-98	IC CXD8451M			
IC302	8-752-063-44	IC CXA1646Q			
IC304	8-759-700-43	IC NJM4558M			
IC305	8-759-700-43	IC NJM4558M			
IC306	8-759-700-43	IC NJM4558M			
IC307	8-759-924-46	IC BA4560F			
IC501	8-759-188-05	IC uPD75518GF-130-3B9			
IC502	8-759-940-45	IC S-8054HN-CB			
IC503	8-759-182-76	IC BA3910B			
IC552	8-759-932-86	IC BU4081BF			
IC603	8-759-823-81	IC LC7216M			
IC701	8-759-062-62	IC TDA1554Q			
		< JUMPER >			
JR100	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR101	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR104	1-216-295-00	METAL GLAZE	0	5%	1/10W
		< COIL >			
L301	1-410-973-11	INDUCTOR	22uH		
L303	1-410-973-11	INDUCTOR	22uH		
L501	1-410-973-11	INDUCTOR	22uH		
L602	1-410-973-11	INDUCTOR	22uH		
		< TRANSISTOR >			
Q100	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q101	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q102	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q200	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q201	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q202	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q301	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q501	8-729-429-92	TRANSISTOR	XN1211		
Q502	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q504	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q508	8-729-209-15	TRANSISTOR	2SD2012		
Q511	8-729-106-60	TRANSISTOR	2SB1115A-YQ		
Q513	8-729-901-00	TRANSISTOR	DTC124EK		
Q514	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q515	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q517	8-729-424-59	TRANSISTOR	UN2212		
Q519	8-729-424-59	TRANSISTOR	UN2212		
Q520	8-729-019-00	TRANSISTOR	2SD2394-G		
Q521	8-729-422-87	TRANSISTOR	2SB1073-R		
Q522	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q523	8-729-424-59	TRANSISTOR	UN2212		
Q524	8-729-402-13	TRANSISTOR	XN1501		
Q550	8-729-421-19	TRANSISTOR	UN2213		
Q601	8-729-809-71	TRANSISTOR	2SK536		
Q605	8-729-424-59	TRANSISTOR	UN2212		
Q701	8-729-424-59	TRANSISTOR	UN2212		
Q702	8-729-424-59	TRANSISTOR	UN2212		
		< RESISTOR >			
R100	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R101	1-216-081-00	METAL CHIP	22K	5%	1/10W
R102	1-216-081-00	METAL CHIP	22K	5%	1/10W
R103	1-216-081-00	METAL CHIP	22K	5%	1/10W
R104	1-216-081-00	METAL CHIP	22K	5%	1/10W
R105	1-216-085-00	METAL CHIP	33K	5%	1/10W
R106	1-216-085-00	METAL CHIP	33K	5%	1/10W
R107	1-216-843-11	METAL CHIP	68K	5%	1/16W
R108	1-216-843-11	METAL CHIP	68K	5%	1/16W
R109	1-216-089-00	METAL CHIP	47K	5%	1/10W
R110	1-216-073-00	METAL CHIP	10K	5%	1/10W
R111	1-216-075-00	METAL CHIP (US, Canadian)	12K	5%	1/10W
R111	1-216-082-00	METAL CHIP (AEP, UK, E)	24K	5%	1/10W
R112	1-216-081-00	METAL CHIP	22K	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/16W
R114	1-216-838-11	METAL CHIP	27K	5%	1/16W
R115	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R116	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R117	1-216-073-00	METAL CHIP	10K	5%	1/10W
R118	1-216-073-00	METAL CHIP	10K	5%	1/10W
R119	1-216-089-00	METAL CHIP	47K	5%	1/10W
R200	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R201	1-216-081-00	METAL CHIP	22K	5%	1/10W
R202	1-216-081-00	METAL CHIP	22K	5%	1/10W
R203	1-216-081-00	METAL CHIP	22K	5%	1/10W
R204	1-216-081-00	METAL CHIP	22K	5%	1/10W
R205	1-216-085-00	METAL CHIP	33K	5%	1/10W
R206	1-216-085-00	METAL CHIP	33K	5%	1/10W
R207	1-216-843-11	METAL CHIP	68K	5%	1/16W
R208	1-216-843-11	METAL CHIP	68K	5%	1/16W
R209	1-216-089-00	METAL CHIP	47K	5%	1/10W
R210	1-216-073-00	METAL CHIP	10K	5%	1/10W
R211	1-216-075-00	METAL CHIP (US, Canadian)	12K	5%	1/10W
R211	1-216-082-00	METAL CHIP (AEP, UK, E)	24K	5%	1/10W
R212	1-216-081-00	METAL CHIP	22K	5%	1/10W
R213	1-216-833-11	METAL CHIP	10K	5%	1/16W
R214	1-216-838-11	METAL CHIP	27K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R215	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R216	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W
R218	1-216-073-00	METAL CHIP	10K	5%	1/10W
R219	1-216-089-00	METAL CHIP	47K	5%	1/10W
R302	1-216-001-00	METAL CHIP	10	5%	1/10W
R303	1-216-001-00	METAL CHIP	10	5%	1/10W
R304	1-216-001-00	METAL CHIP	10	5%	1/10W
R305	1-216-815-11	METAL CHIP	330	5%	1/16W
R310	1-216-025-00	METAL CHIP	100	5%	1/10W
R311	1-216-025-00	METAL CHIP	100	5%	1/10W
R312	1-216-025-00	METAL CHIP	100	5%	1/10W
R500	1-216-133-00	METAL CHIP	3.3M	5%	1/10W
R501	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R502	1-216-841-11	METAL CHIP	47K	5%	1/16W
R505	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R506	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R507	1-216-847-11	METAL CHIP	150K	5%	1/16W
R509	1-216-295-00	METAL CHIP	0	5%	1/10W
R510	1-216-089-00	METAL CHIP	47K	5%	1/10W
R511	1-216-841-11	METAL CHIP	47K	5%	1/16W
R512	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R513	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R514	1-216-035-00	METAL CHIP	270	5%	1/10W
R517	1-216-845-11	METAL CHIP	100K	5%	1/16W
R518	1-216-073-00	METAL CHIP	10K	5%	1/10W
R519	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R520	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R521	1-216-105-00	METAL CHIP	220K	5%	1/10W
R522	1-216-079-00	METAL CHIP	18K	5%	1/10W
R524	1-216-049-00	METAL CHIP	1K	5%	1/10W
R525	1-216-049-00	METAL CHIP	1K	5%	1/10W
R526	1-216-025-00	METAL CHIP	100	5%	1/10W
R527	1-216-049-00	METAL CHIP	1K	5%	1/10W
R528	1-216-025-00	METAL CHIP	100	5%	1/10W
R529	1-216-025-00	METAL CHIP	100	5%	1/10W
R530	1-216-073-00	METAL CHIP	10K	5%	1/10W
R531	1-216-073-00	METAL CHIP	10K	5%	1/10W
R534	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R535	1-216-089-00	METAL CHIP	47K	5%	1/10W
R536	1-216-073-00	METAL CHIP	10K	5%	1/10W
R541	1-216-089-00	METAL CHIP	47K	5%	1/10W
R542	1-216-105-00	METAL CHIP	220K	5%	1/10W
R543	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R547	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R548	1-216-073-00	METAL CHIP	10K	5%	1/10W
R549	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R550	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R551	1-216-097-00	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R552	1-216-097-00	METAL CHIP	100K	5%	1/10W
R553	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R556	1-216-073-00	METAL CHIP	10K	5%	1/10W
R557	1-216-105-00	METAL CHIP	220K	5%	1/10W
R559	1-216-089-00	METAL CHIP	47K	5%	1/10W
R560	1-216-097-00	METAL CHIP	100K	5%	1/10W
R561	1-216-097-00	METAL CHIP	100K	5%	1/10W
R562	1-216-845-11	METAL CHIP	100K	5%	1/16W (E)
R562	1-216-864-11	METAL CHIP (US, Canadian)	0	5%	1/16W
R563	1-216-864-11	METAL CHIP	0	5%	1/16W
R571	1-216-821-11	METAL CHIP	1K	5%	1/16W
R572	1-216-105-00	METAL CHIP	220K	5%	1/10W
R573	1-216-105-00	METAL CHIP	220K	5%	1/10W
R574	1-216-105-00	METAL CHIP	220K	5%	1/10W
R582	1-216-105-00	METAL CHIP	220K	5%	1/10W
R583	1-216-845-11	METAL CHIP	100K	5%	1/16W
R585	1-216-073-00	METAL CHIP	10K	5%	1/10W
R586	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R587	1-216-851-11	METAL CHIP	330K	5%	1/16W
R588	1-216-841-11	METAL CHIP	47K	5%	1/16W
R589	1-216-841-11	METAL CHIP	47K	5%	1/16W
R590	1-216-841-11	METAL CHIP	47K	5%	1/16W
R591	1-216-841-11	METAL CHIP	47K	5%	1/16W
R592	1-216-821-11	METAL CHIP	1K	5%	1/16W
R593	1-216-833-11	METAL CHIP	10K	5%	1/16W
R594	1-216-073-00	METAL CHIP	10K	5%	1/10W
R597	1-216-295-00	METAL CHIP	0	5%	1/10W
R599	1-216-080-11	METAL CHIP	20K	5%	1/10W
R600	1-216-821-11	METAL CHIP	1K	5%	1/16W
R601	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R602	1-216-073-00	METAL CHIP	10K	5%	1/10W
R603	1-216-821-11	METAL CHIP	1K	5%	1/16W
R604	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R605	1-216-073-00	METAL CHIP	10K	5%	1/10W
R606	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R607	1-216-073-00	METAL CHIP	10K	5%	1/10W
R608	1-216-043-00	METAL CHIP (US, Canadian)	560	5%	1/10W
R608	1-216-057-00	METAL CHIP (AEP, UK, E)	2.2K	5%	1/10W
R609	1-216-097-00	METAL CHIP	100K	5%	1/10W
R615	1-216-113-00	METAL CHIP	470K	5%	1/10W
R621	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R622	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R624	1-216-073-00	METAL CHIP	10K	5%	1/10W
R625	1-216-073-00	METAL CHIP	10K	5%	1/10W
R630	1-216-025-00	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R631	1-216-049-00	METAL CHIP	1K	5%	1/10W
R632	1-216-049-00	METAL CHIP	1K	5%	1/10W
R731	1-216-089-00	METAL CHIP	47K	5%	1/10W
R732	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R733	1-216-097-00	METAL CHIP	100K	5%	1/10W
		< SWITCH >			
SW501	1-572-272-11	SWITCH, SLIDE (POWER SEL)			
SW502	1-572-272-11	SWITCH, SLIDE (CHANNEL SPACE) (E)			
		< THERMISTOR >			
TH501	1-806-715-11	THERMISTOR			
TH502	1-806-715-11	THERMISTOR			
		< VIBRATOR >			
X301	1-567-820-11	VIBRATOR, CRYSTAL (16.934MHz)			
X502	1-579-886-21	VIBRATOR, CRYSTAL (32KHz)			
X503	1-567-776-21	VIBRATOR, CERAMIC (6MHz)			
X601	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)			

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English
93H0578-1
Printed in Japan
© 1993. 8

9-957-789-82

Sony Corporation
Mobile Electronics Group

Published by Audio Sector Quality Assurance Dept.

CDX-5060

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model
UK Model

SUPPLEMENT-3

File this supplement with the service manual.

Subject:
1. Correction
2. Board-change of Mecha-Deck part

1. CORRECTION

Correct your service manual shown below.

SPECIFICATIONS

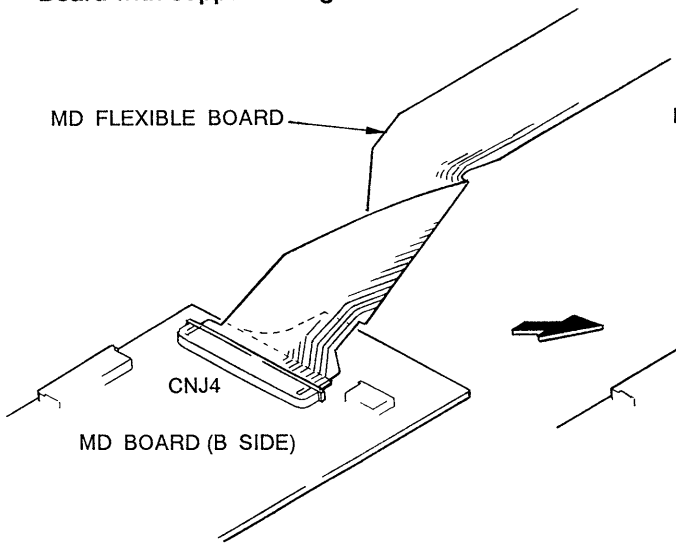
Page	Incorrect	Correct
1 (Tuner section FM)	Sensitivity 12 dBf	Sensitivity 8 dBf

2. BOARD-CHANGE OF MECHA-DECK PART

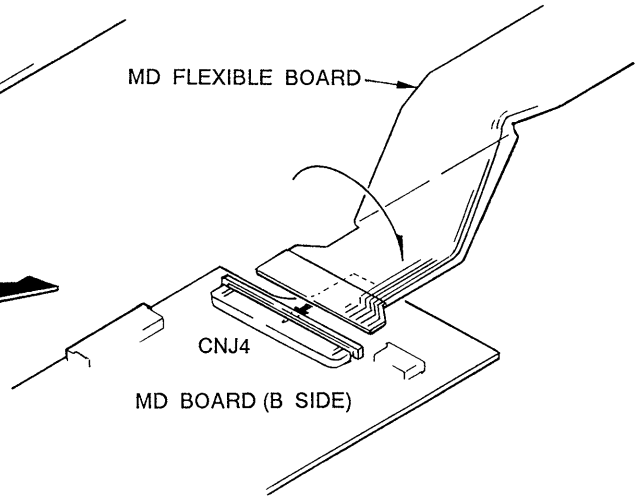
Change has been mode in the board of mecha-deck part from copper through hole board into silver through hole board on the way of producing this unit. This SUPPLEMENT-3 contains only the informations which are changed. Please refer to the service manual previously issued for the other informations.

The copper through hole board and the silver through hole board can be used vice versa, however, in attaching the MD Board (1-650-189-11) of the silver through hole board to the Mecha Deck of the copper through hole board, stick the MD Flexible Board (1-646-932-11) into the MD Board CNJ4 without bending the MD Flexible Board.

Board with copper through-holes

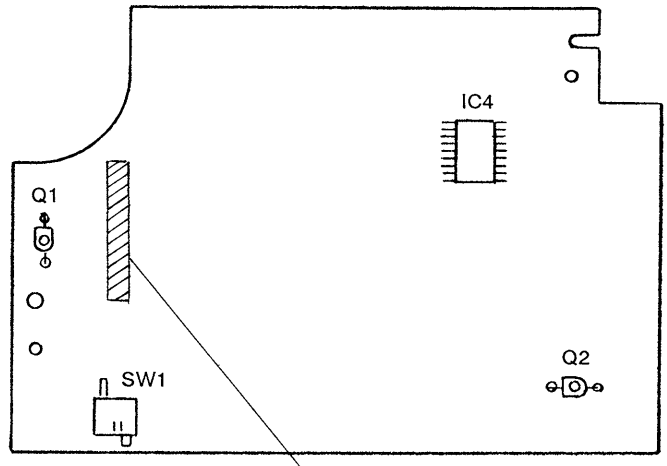


Board with silver through-holes



• MD BOARD DISCRIMINATION

MD BOARD (A SIDE)



1-646-396-11 board with copper through-holes
1-650-189-11 board with silver through-holes

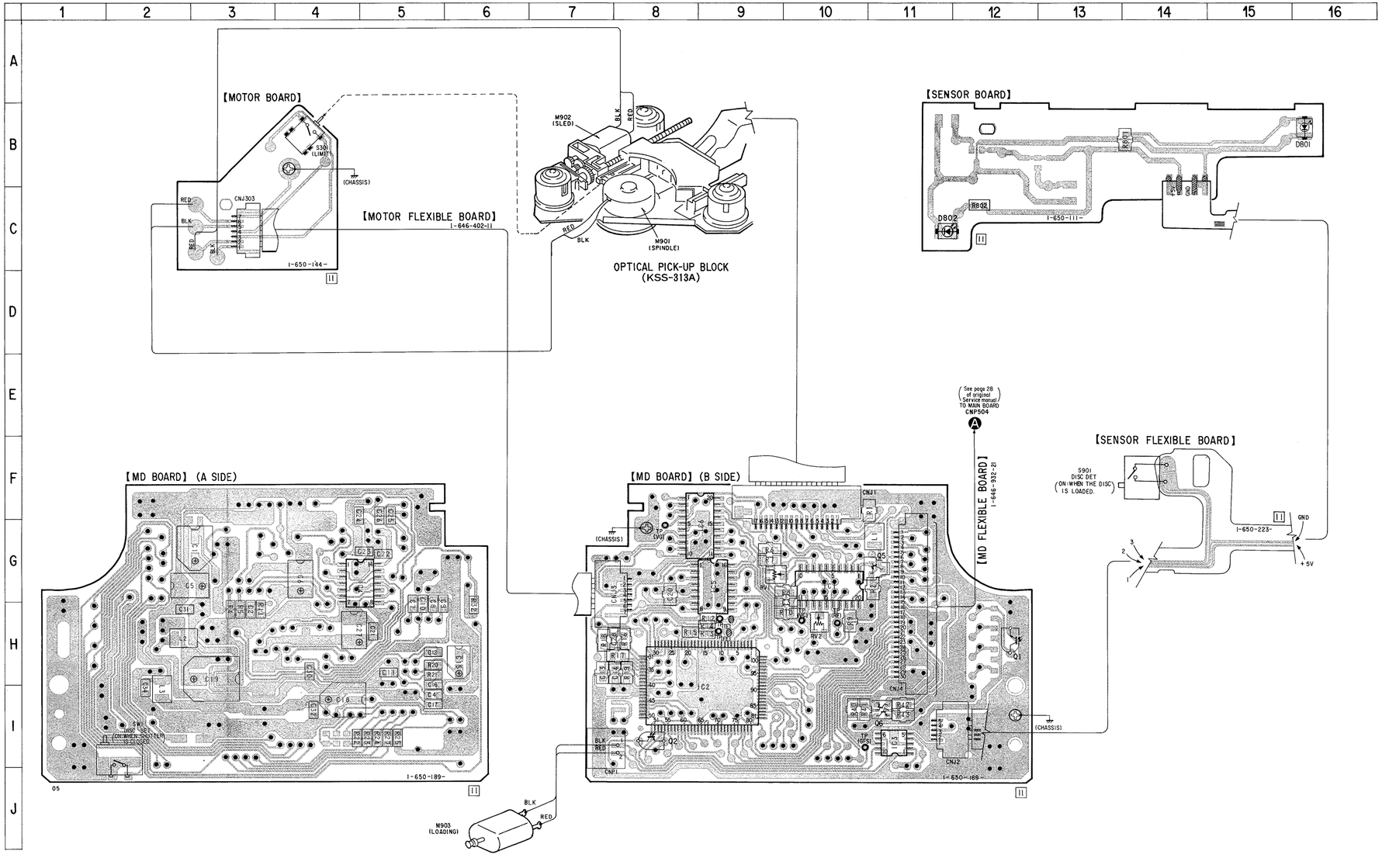
PRINTED WIRING BOARDS – MD Section –

• **Semiconductor Location**

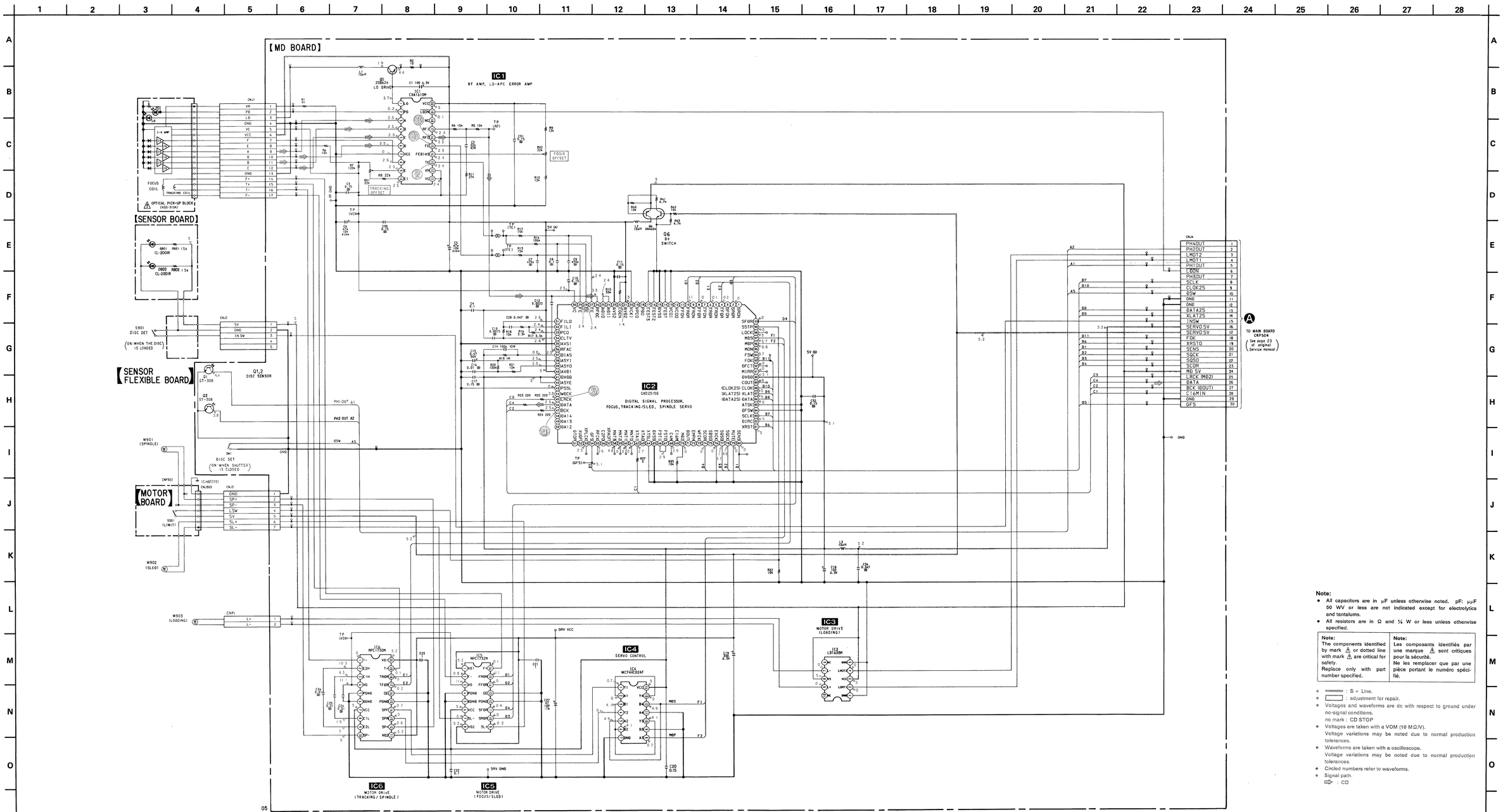
Ref. No.	Location
D801	B-16
D802	C-11
IC1	G-10
IC2	I-9
IC3	I-11
IC4	G-5
IC5	G-9
IC6	G-9
Q1	H-12
Q2	I-8
Q5	G-11
Q6	I-11

Note:
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)



SCHEMATIC DIAGRAM – MD Section –



Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬ : B + Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD STOP
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

EXPLODED VIEWS

Page	Board with Copper Through-holes			Board with Silver Through-holes	
	Ref. No.	Part No.	Description	Part No.	Description
38	16	1-646-932-11	MD FLEXIBLE BOARD	1-646-932-21	MD FLEXIBLE BOARD
40	126	1-646-401-11	SENSOR FLEXIBLE BOARD	1-650-223-11	SENSOR FLEXIBLE BOARD
41	* 155	1-646-397-11	MOTOR BOARD	1-650-144-11	MOTOR BOARD

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description			Remark
*	A-3222-526-A	MD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C2	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C3	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C4	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C5	1-135-166-21	TANTALUM CHIP	47uF	10%	10V
C6	1-135-166-21	TANTALUM CHIP	47uF	10%	10V
C7	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C8	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C9	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C10	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C11	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C12	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C13	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C14	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C15	1-126-191-11	ELECT	0.47uF	20%	50V
C16	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C17	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C18	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C19	1-128-391-11	ELECT	330uF	20%	6.3V
C20	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C21	1-164-346-11	CERAMIC CHIP	1uF		16V
C22	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C23	1-164-346-11	CERAMIC CHIP	1uF		16V
C24	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C25	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C27	1-135-166-21	TANTALUM CHIP	47uF	10%	10V
C28	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C30	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C31	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C32	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C34	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CNJ1	1-565-728-11	CONNECTOR, FPC 17P			
* CNJ2	1-750-159-21	CONNECTOR, FPC 5P			
* CNJ3	1-750-160-21	CONNECTOR, FPC 7P			
* CNJ4	1-764-441-21	CONNECTOR, FPC 30P			
* CNP1	1-580-055-21	PIN, CONNECTOR 2P			
		< IC >			
IC1	8-752-059-30	IC	CXA1610M		
IC2	8-752-367-16	IC	CXD2515Q		
IC3	8-759-823-87	IC	LB1638M		
IC4	8-759-925-72	IC	SN74HC02ANS		
IC5	8-759-087-55	IC	MPC1732MR2		
IC6	8-759-087-53	IC	MPC1730MR2		
		< COIL >			
L1	1-412-058-11	INDUCTOR CHIP	10uH		
L2	1-412-058-11	INDUCTOR CHIP	10uH		
L3	1-412-058-11	INDUCTOR CHIP	10uH		
		< TRANSISTOR >			
Q1	8-729-018-00	TRANSISTOR	ST-308		
Q2	8-729-018-00	TRANSISTOR	ST-308		
Q5	8-729-141-48	TRANSISTOR	2SB624-BV345		
Q6	8-729-425-24	TRANSISTOR	XN4604		
		< RESISTOR >			
R1	1-216-024-00	METAL GLAZE	91	5%	1/10W
R2	1-216-001-00	METAL CHIP	10	5%	1/10W
R4	1-216-077-00	METAL CHIP	15K	5%	1/10W
R5	1-216-073-00	METAL CHIP	10K	5%	1/10W
R6	1-216-073-00	METAL CHIP	10K	5%	1/10W
R7	1-216-099-00	METAL CHIP	120K	5%	1/10W
R8	1-216-081-00	METAL CHIP	22K	5%	1/10W
R9	1-216-075-00	METAL CHIP	12K	5%	1/10W
R10	1-216-075-00	METAL CHIP	12K	5%	1/10W
R11	1-216-083-00	METAL CHIP	27K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R12	1-216-835-11	METAL CHIP	15K	5%	1/16W
R13	1-216-835-11	METAL CHIP	15K	5%	1/16W
R14	1-216-845-11	METAL CHIP	100K	5%	1/16W
R15	1-216-839-11	METAL CHIP	33K	5%	1/16W
R16	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R17	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W
R19	1-216-121-00	METAL CHIP	1M	5%	1/10W
R20	1-216-097-00	METAL CHIP	100K	5%	1/10W
R21	1-216-073-00	METAL CHIP	10K	5%	1/10W
R22	1-216-033-00	METAL CHIP	220	5%	1/10W
R23	1-216-033-00	METAL CHIP	220	5%	1/10W
R24	1-216-033-00	METAL CHIP	220	5%	1/10W
R25	1-216-073-00	METAL CHIP	10K	5%	1/10W
R27	1-216-295-00	METAL CHIP	0	5%	1/10W
R32	1-216-073-00	METAL CHIP	10K	5%	1/10W
R40	1-216-073-00	METAL CHIP	10K	5%	1/10W
R41	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
		< VARIABLE RESISTOR >			
RV1	1-238-091-11	RES, ADJ, CERMET	22K		
RV2	1-238-091-11	RES, ADJ, CERMET	22K		
		< SWITCH >			
SW1	1-571-754-31	SWITCH, PUSH (1 KEY) (DISC SET)			
**********					
*	1-650-144-11	MOTOR BOARD			
		**********			
		< CONNECTOR >			
* CNJ303	1-750-160-21	CONNECTOR, FPC 7P			
		< SWITCH >			
S301	1-572-467-21	SWITCH, PUSH (1 KEY) (LIMIT)			
**********					
*	A-3222-525-A	SENSOR BOARD, COMPLETE			
		**********			
		(Include SENSOR FLEXIBLE BOARD)			
		< DIODE >			
D801	8-719-045-75	DIODE CL-200IR-X-TU			
D802	8-719-045-75	DIODE CL-200IR-X-TU			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R801	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R802	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
**********					
	1-650-223-11	SENSOR FLEXIBLE BOARD			
		**********			
		< SWITCH >			
S901	1-692-441-11	SWITCH, MICROPHONE (DISC DET)			
**********					

English
94A0558-1
Printed in Japan
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9-957-789-83

Sony Corporation
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Published by Audio Sector Quality Assurance Dept.